

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

APPROVED

By Nelson Velez at 12:21 pm, Jan 05, 2022

Responsible Party

- OCD approves the Proposed Delineation Activities.
- Notify OCD of approximate commencement scheduling of the activities.

| | |
|--|---------------------------------|
| Responsible Party: Hilcorp Energy Company | OGRID: 372171 |
| Contact Name: Lindsay Dumas | Contact Telephone: 832-839-4585 |
| Contact email: Ldumas@hilcorp.com | Incident # (assigned by OCD) |
| Contact mailing address: 1111 Travis St. Houston, TX 77002 | |

Location of Release Source

Latitude 36.5631485 Longitude -107.2507401
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|----------------------------------|-----------------------------------|
| Site Name: San Juan 27-4 Unit 60 | Site Type: Gas |
| Date Release Discovered: 4-16-19 | API# (if applicable) 30-039-20484 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|------------|
| A | 21 | 27N | 04W | Rio Arriba |

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

Nature and Volume of Release

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

| | | |
|--|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 5 | Volume Recovered (bbls) 5 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

Release discovered by NMOCD inspector Jonathan Kelly. The BGT has been out of service for the last three years. Snow melt entered the pit and cribbing area, mixing with BS&W in the pit and exited via a corrosion hole in the pit.

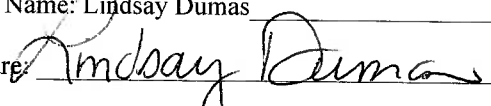
State of New Mexico
Oil Conservation Division

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

| | |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input 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)? | |

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>Lindsay Dumas</u> | Title: <u>Environmental Specialist</u> |
| Signature: <u></u> | Date: <u>9-27-19</u> |
| email: <u>Ldumas@hilcorp.com</u> | Telephone: <u>832-839-4585</u> |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |

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

Closure

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

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

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

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

Printed Name: Billy Ginn _____ Title: Environmental Specialist _____

Signature:  _____ Date: 3/10/2022 _____

email: William.ginn@hilcorp.com _____ Telephone: 346-237-2073 _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  _____ Date: 03/23/2022 _____

Printed Name: Nelson Velez _____ Title: Environmental Specialist - Adv _____

Executive Summary

During an onsite inspection on April 16, 2019, Mr. Jonathan Kelly, an inspector with the New Mexico Oil Conservation Division (NMOCD), discovered a release originating from an out of service below-grade tank (BGT). Specifically, Mr. Kelly noted that melted snow had entered the BGT, mixing with bottom sludge and water, and exited through corrosion holed in the steel tank. It was estimated that five (5) barrels of produced water was released at the San Juan 27-4 Unit 60 (API No. 30-039-20484). Upon discovery, HEC cleaned and removed the BGT from the Site and LT Environmental, Inc. (LTE) collected one, 5-point composite soil sample from the area below the BGT. All soil analytical results were compared to the site-specific Table 1 Closure Criteria. Results for all soil samples were shown to be above the applicable clean up action levels. The release was isolated within the BGT pit.

HEC submitted a Remediation Work Plan on December 7th, 2021, which was approved on January 5th, 2022 (see attached). Following the initial investigation, on January 12th, 2022, Hilcorp chose to assess soil impacts by taking samples of the impacted area. In order to delineate potential petroleum hydrocarbon impacts to soil originating from the release, HEC's Kurt Hoekstra advanced five borings at the site. During sampling, soil was inspected for visual staining and the presence or absence of odor. The soil was characterized, visually, by inspecting the soil samples and field screening the soil headspace using a photoionization detector (PID) to monitor for the presence of organic vapors. Two (2) soil samples were collected from each boring and submitted to Hall Environmental Analysis Laboratory for analysis of TPH, BTEX, and chloride. Lab samples confirmed that the impacts were detected at 4' bgs. Hilcorp chose to remediate the site via dig/haul with the use of a backhoe. One excavation/confirmation sampling event occurred from Monday, February 21st through Tuesday, February 22nd, 2022. A total of approximately 50 cubic yards (yd³) was excavated from the release area. Confirmation sampling was scheduled for Monday, February 21st, 2022, at 11:00 am in accordance with NMAC 19.15.29.12.D. However, no representation from NMOCD was present at the time of the scheduled sampling. Prior to commencing any excavation activities, a one-call was made. WSP, on behalf of HEC, proceeded with the confirmation sampling event as scheduled. In order to confirm remediation of potential petroleum hydrocarbon impacts to soil originating from the release, WSP collected samples every 200 square feet, including four (4) sidewall composite samples and three (3) floor samples at eleven (11) feet at the site in the locations indicated on Figure 4. During sampling, soil was inspected for visual staining and the presence or absence of odor. The soil was characterized, visually, by inspecting the soil samples and field screening the soil headspace using a photoionization detector (PID) to monitor for the presence of organic vapors. All soil analytical results were compared to the site-specific Table 1 Closure Criteria. Results for all soil samples were shown to be below the applicable clean up action levels.



Figure 1: Scaled Map



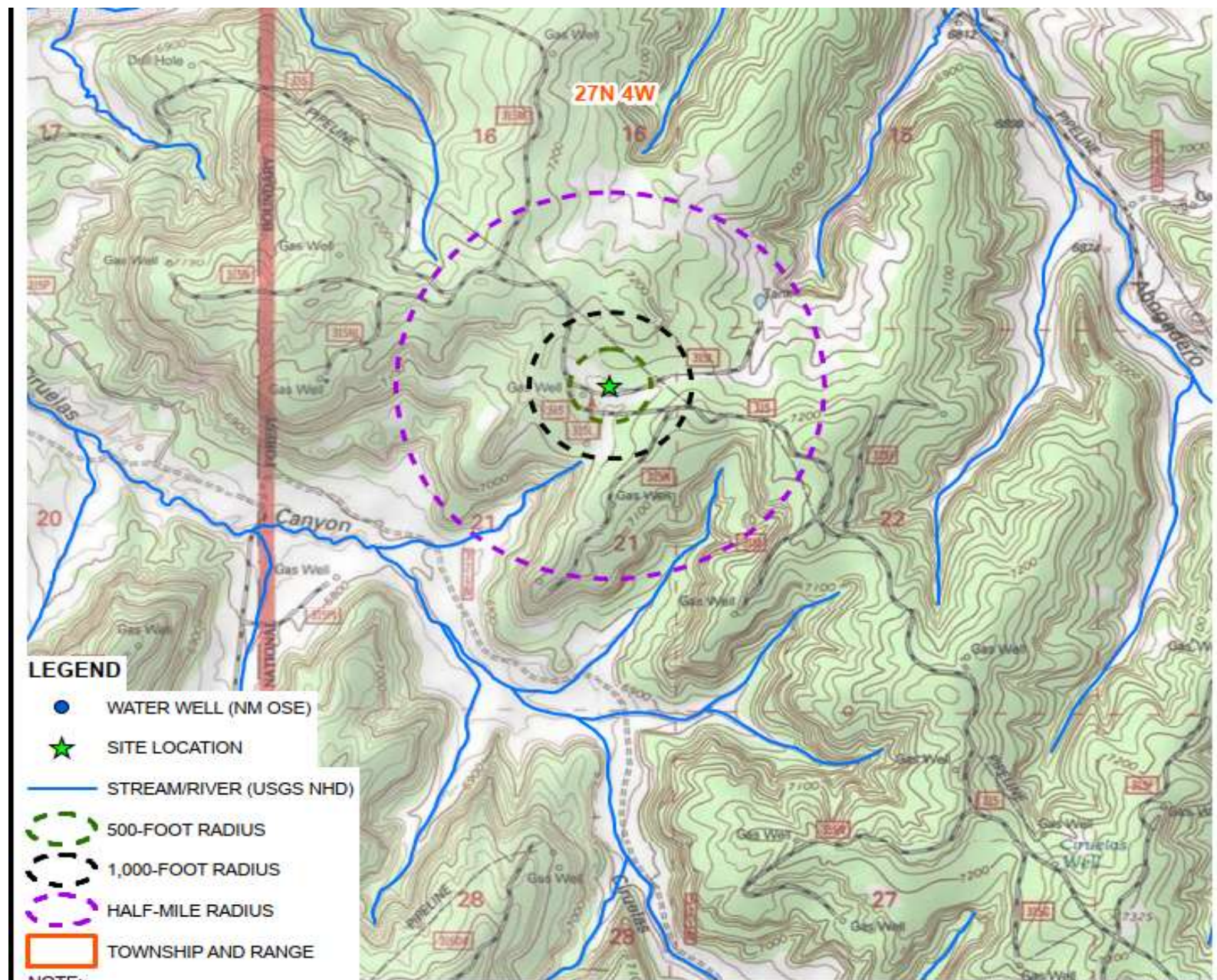


Figure 4: Scaled Map – Close-up





Figure 5: Determination of water sources, significant watercourses, & mapped water wells within ½ mile of the lateral extent of the release



Note 1: Release point is not shown to be within 300 ft of any continuously flowing watercourse or any 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.

Note 3: 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

NNE Sidewall View Looking from Inside Pit – 3/9/22 at 01:36 pm, 36.56319°N 107.25150°W



East Sidewall View Looking from Inside Pit – 3/9/22 at 01:36 pm, 36.56319°N 107.25150°W



SSW Sidewall View Looking from Inside Pit – 3/9/22 at 01:36 pm, 36.56319°N 107.25150°W



West Sidewall View Looking from Above Pit – 3/9/22 at 01:36 pm, 36.56317°N 107.25148°W



Data table of soil contaminant concentration data

**SAN JUAN 27-4 #60
RIO ARriba COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY**

| Soil Sample Identification | Sample Date | Field Headspace (ppm) | Sample Depth (feet bgs) | Chlorides (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | MRO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) |
|---------------------------------------|-------------|-----------------------|-------------------------|-------------------|-----------------|-----------------|----------------------|-----------------------|--------------------|-------------|-------------|-------------|-----------------------|--------------|
| NE-CPST | 2/22/2022 | 4,212.0 | wall composite | <60 | <0.024 | <0.048 | 0.095 | 0.095 | 0.20 | 20 | 270 | 85 | 290 | 375 |
| SE-CPST | 2/22/2022 | 1,880.0 | wall composite | <60 | <0.025 | <0.050 | 0.14 | 1.2 | 1.3 | 29 | 180 | <48 | 29 | 209 |
| SW-CPST | 2/22/2022 | 1,311.0 | wall composite | <60 | <0.12 | <0.24 | <0.24 | 0.90 | 0.90 | 27 | 140 | <46 | 27 | 167 |
| NW-CPST | 2/22/2022 | 772.0 | wall composite | <61 | <0.12 | <0.24 | <0.24 | 1.6 | 1.6 | 61 | 440 | 130 | 191 | 631 |
| FLR-1 | 2/22/2022 | 1,227.0 | 10.0 | <60 | <0.12 | <0.24 | 0.37 | 3.2 | 3.6 | 96 | 340 | 130 | 226 | 566 |
| FLR-2 | 2/22/2022 | 3,244.0 | 10.0 | <60 | <0.12 | <0.24 | <0.24 | 2.0 | 2.0 | 85 | 160 | <45 | 85 | 245 |
| FLR-3 | 2/22/2022 | 3,317.0 | 10.0 | <60 | <0.12 | <0.24 | 1.0 | 14 | 15 | 230 | 300 | 54 | 284 | 584 |
| NMOCD Table 1 Closure Criteria | | | | 20,000 | 10 | NE | NE | NE | 50 | NE | NE | NE | 1,000 | 2,500 |

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes analyzed by US EPA Method 8021B

DRO - diesel range organics analyzed by US EPA Method 8015D

GRO - gasoline range organics analyzed by US EPA Method 8015D

mg/kg - milligrams per kilogram

MRO - motor oil range organics analyzed by US EPA Method 8015D

NE - not established

NMOCD - New Mexico Oil Conservation Division

ppm - parts per million

TPH - total petroleum hydrocarbon (sum of GRO, DRO, and MRO)

< - indicates result is below laboratory reporting limits

Note: Confirmation samples were collected on 2/22/2022 by WSP personnel. All samples came back below action levels.

Billy Ginn

From: Hyde, Stuart <Stuart.Hyde@wsp.com>
Sent: Thursday, February 17, 2022 11:38 AM
To: Enviro, OCD, EMNRD; Velez, Nelson, EMNRD; jon.miller@usda.gov; jjmiller@fs.fed.us
Cc: Hencmann, Devin; Billy Ginn
Subject: [EXTERNAL] NCS1929537483 - San Juan 27-4 Unit 60 Notification of Confirmation Sampling

All,

On behalf of Hilcorp, WSP is submitting this notification for conducting excavation and confirmation soil sampling at the San Juan 27-4 Unit 60 (36.5631485, -107.2507401) on February , 21 2022 at 11:00 a.m. With potential weather coming in on Monday, we will update everyone as soon as possible if the sampling schedule changes.

Please reach out with any questions. Thanks.



Stuart Hyde, L.G.
Senior Geologist

T+ 1 970-385-1096
M+ 1 970-903-1607
Stuart.hyde@wsp.com

WSP USA Inc.
848 East 2nd Avenue
Durango, Colorado 81301

wsp.com

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

March 08, 2022

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

RE: San Juan 27 4 60

OrderNo.: 2202C23

Dear William Ginn:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/25/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2202C23

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: NE-CPST

Project: San Juan 27 4 60

Collection Date: 2/22/2022 3:10:00 PM

Lab ID: 2202C23-001

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 270 | 9.5 | | mg/Kg | 1 | 3/2/2022 3:20:48 PM |
| Motor Oil Range Organics (MRO) | 85 | 47 | | mg/Kg | 1 | 3/2/2022 3:20:48 PM |
| Surr: DNOP | 88.5 | 51.1-141 | | %Rec | 1 | 3/2/2022 3:20:48 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | 20 | 4.8 | | mg/Kg | 1 | 2/28/2022 6:58:00 PM |
| Surr: BFB | 161 | 70-130 | S | %Rec | 1 | 2/28/2022 6:58:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/28/2022 6:58:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/28/2022 6:58:00 PM |
| Ethylbenzene | 0.095 | 0.048 | | mg/Kg | 1 | 2/28/2022 6:58:00 PM |
| Xylenes, Total | 0.95 | 0.095 | | mg/Kg | 1 | 2/28/2022 6:58:00 PM |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | | %Rec | 1 | 2/28/2022 6:58:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 3/3/2022 3:17:26 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 | 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 range due to dilution or matrix interference | | |
| | | | | |

Analytical Report

Lab Order 2202C23

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: SE-CPST

Project: San Juan 27 4 60

Collection Date: 2/22/2022 3:12:00 PM

Lab ID: 2202C23-002

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 180 | 9.6 | | mg/Kg | 1 | 3/2/2022 3:32:09 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 3/2/2022 3:32:09 PM |
| Surr: DNOP | 115 | 51.1-141 | | %Rec | 1 | 3/2/2022 3:32:09 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | 29 | 5.0 | | mg/Kg | 1 | 2/28/2022 7:17:00 PM |
| Surr: BFB | 282 | 70-130 | S | %Rec | 1 | 2/28/2022 7:17:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/28/2022 7:17:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 2/28/2022 7:17:00 PM |
| Ethylbenzene | 0.14 | 0.050 | | mg/Kg | 1 | 2/28/2022 7:17:00 PM |
| Xylenes, Total | 1.2 | 0.099 | | mg/Kg | 1 | 2/28/2022 7:17:00 PM |
| Surr: 4-Bromofluorobenzene | 120 | 70-130 | | %Rec | 1 | 2/28/2022 7:17:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 3/3/2022 3:29:50 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 | 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 range due to dilution or matrix interference | | |
| | | | | |

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Analytical Report

Lab Order 2202C23

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: SW-CPST

Project: San Juan 27 4 60

Collection Date: 2/22/2022 3:14:00 PM

Lab ID: 2202C23-003

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 140 | 9.2 | | mg/Kg | 1 | 3/2/2022 3:43:32 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 3/2/2022 3:43:32 PM |
| Surr: DNOP | 86.8 | 51.1-141 | | %Rec | 1 | 3/2/2022 3:43:32 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 27 | 24 | | mg/Kg | 5 | 2/28/2022 10:49:44 AM |
| Surr: BFB | 141 | 70-130 | S | %Rec | 5 | 2/28/2022 10:49:44 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 2/28/2022 10:49:44 AM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 2/28/2022 10:49:44 AM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 2/28/2022 10:49:44 AM |
| Xylenes, Total | 0.90 | 0.48 | | mg/Kg | 5 | 2/28/2022 10:49:44 AM |
| Surr: 4-Bromofluorobenzene | 104 | 70-130 | | %Rec | 5 | 2/28/2022 10:49:44 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 3/3/2022 3:42:14 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 | 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 range due to dilution or matrix interference | | |
| | | | | |

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Analytical Report

Lab Order 2202C23

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: NW-CPST

Project: San Juan 27 4 60

Collection Date: 2/22/2022 3:16:00 PM

Lab ID: 2202C23-004

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 440 | 9.7 | | mg/Kg | 1 | 3/2/2022 3:54:45 PM |
| Motor Oil Range Organics (MRO) | 130 | 49 | | mg/Kg | 1 | 3/2/2022 3:54:45 PM |
| Surr: DNOP | 84.7 | 51.1-141 | | %Rec | 1 | 3/2/2022 3:54:45 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 61 | 24 | | mg/Kg | 5 | 3/1/2022 2:33:37 PM |
| Surr: BFB | 196 | 70-130 | S | %Rec | 5 | 3/1/2022 2:33:37 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 3/1/2022 2:33:37 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 3/1/2022 2:33:37 PM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 3/1/2022 2:33:37 PM |
| Xylenes, Total | 1.6 | 0.49 | | mg/Kg | 5 | 3/1/2022 2:33:37 PM |
| Surr: 4-Bromofluorobenzene | 106 | 70-130 | | %Rec | 5 | 3/1/2022 2:33:37 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 61 | | mg/Kg | 20 | 3/3/2022 3:54:39 AM |

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

| | | | | |
|--------------------|-----|--|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | 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 range due to dilution or matrix interference | | |
| | | | | |

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Analytical Report

Lab Order 2202C23

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: FLR-1

Project: San Juan 27 4 60

Collection Date: 2/22/2022 3:18:00 PM

Lab ID: 2202C23-005

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 340 | 8.4 | | mg/Kg | 1 | 3/2/2022 4:05:49 PM |
| Motor Oil Range Organics (MRO) | 130 | 42 | | mg/Kg | 1 | 3/2/2022 4:05:49 PM |
| Surr: DNOP | 91.9 | 51.1-141 | | %Rec | 1 | 3/2/2022 4:05:49 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 96 | 24 | | mg/Kg | 5 | 2/28/2022 1:12:32 PM |
| Surr: BFB | 206 | 70-130 | S | %Rec | 5 | 2/28/2022 1:12:32 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 2/28/2022 1:12:32 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 2/28/2022 1:12:32 PM |
| Ethylbenzene | 0.37 | 0.24 | | mg/Kg | 5 | 2/28/2022 1:12:32 PM |
| Xylenes, Total | 3.2 | 0.49 | | mg/Kg | 5 | 2/28/2022 1:12:32 PM |
| Surr: 4-Bromofluorobenzene | 109 | 70-130 | | %Rec | 5 | 2/28/2022 1:12:32 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 3/3/2022 4:07:03 AM |

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

| | | | | |
|--------------------|-----|--|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | 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 range due to dilution or matrix interference | | |
| | | | | |

Analytical Report

Lab Order 2202C23

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: FLR-2

Project: San Juan 27 4 60

Collection Date: 2/22/2022 3:20:00 PM

Lab ID: 2202C23-006

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 160 | 9.1 | | mg/Kg | 1 | 3/3/2022 1:54:47 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 3/3/2022 1:54:47 PM |
| Surr: DNOP | 87.5 | 51.1-141 | | %Rec | 1 | 3/3/2022 1:54:47 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 85 | 24 | | mg/Kg | 5 | 2/28/2022 1:36:41 PM |
| Surr: BFB | 192 | 70-130 | S | %Rec | 5 | 2/28/2022 1:36:41 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 2/28/2022 1:36:41 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 2/28/2022 1:36:41 PM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 2/28/2022 1:36:41 PM |
| Xylenes, Total | 2.0 | 0.47 | | mg/Kg | 5 | 2/28/2022 1:36:41 PM |
| Surr: 4-Bromofluorobenzene | 109 | 70-130 | | %Rec | 5 | 2/28/2022 1:36:41 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 3/3/2022 4:19:28 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 | 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 range due to dilution or matrix interference | | |
| | | | | |

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Analytical Report

Lab Order 2202C23

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: FLR-3

Project: San Juan 27 4 60

Collection Date: 2/22/2022 3:22:00 PM

Lab ID: 2202C23-007

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 300 | 9.0 | | mg/Kg | 1 | 3/2/2022 4:27:44 PM |
| Motor Oil Range Organics (MRO) | 54 | 45 | | mg/Kg | 1 | 3/2/2022 4:27:44 PM |
| Surr: DNOP | 95.1 | 51.1-141 | | %Rec | 1 | 3/2/2022 4:27:44 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 230 | 24 | | mg/Kg | 5 | 2/28/2022 2:00:55 PM |
| Surr: BFB | 328 | 70-130 | S | %Rec | 5 | 2/28/2022 2:00:55 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 2/28/2022 2:00:55 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 2/28/2022 2:00:55 PM |
| Ethylbenzene | 1.0 | 0.24 | | mg/Kg | 5 | 2/28/2022 2:00:55 PM |
| Xylenes, Total | 14 | 0.49 | | mg/Kg | 5 | 2/28/2022 2:00:55 PM |
| Surr: 4-Bromofluorobenzene | 117 | 70-130 | | %Rec | 5 | 2/28/2022 2:00:55 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 3/3/2022 4:31:52 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 | 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 range due to dilution or matrix interference | | |
| | | | | |

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C23

08-Mar-22

Client: HILCORP ENERGY

Project: San Juan 27 4 60

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-65909 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBS | Batch ID: 65909 | RunNo: 86196 | | | | | | | | |
| Prep Date: 3/2/2022 | Analysis Date: 3/2/2022 | SeqNo: 3038531 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-65909 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSS | Batch ID: 65909 | RunNo: 86196 | | | | | | | | |
| Prep Date: 3/2/2022 | Analysis Date: 3/2/2022 | SeqNo: 3038532 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.8 | 90 | 110 | | | |

Qualifiers:

| | | | |
|-----|--|----|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | 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 range due to dilution or matrix interference | | |

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

WO#: 2202C23

08-Mar-22

Client: HILCORP ENERGY**Project:** San Juan 27 4 60

| Sample ID: LCS-65852 | SampType: LCS | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|--------------------------------|-----|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 65852 | | | RunNo: 86180 | | | | | | |
| Prep Date: 3/1/2022 | Analysis Date: 3/2/2022 | | | SeqNo: 3038792 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 94.1 | 68.9 | 135 | | | |
| Surr: DNOP | 4.5 | | 5.000 | | 89.4 | 51.1 | 141 | | | |

| Sample ID: MB-65852 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|--------------------------------|--------------------------------|-----|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 65852 | | | RunNo: 86180 | | | | | | |
| Prep Date: 3/1/2022 | Analysis Date: 3/2/2022 | | | SeqNo: 3038794 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 104 | 51.1 | 141 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E 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#: 2202C23

08-Mar-22

Client: HILCORP ENERGY**Project:** San Juan 27 4 60

| Sample ID: mb-65809 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 65809 | RunNo: 86141 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035700 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 | 1100 | | 1000 | | 106 | 70 | 130 | | | |

| Sample ID: lcs-65809 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 65809 | RunNo: 86141 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035701 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 100 | 78.6 | 131 | | | |
| Surr: BFB | 1200 | | 1000 | | 117 | 70 | 130 | | | |

| Sample ID: 2202c23-003ams | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SW-CPST | Batch ID: 65809 | RunNo: 86141 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035703 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 52 | 24 | 23.72 | 27.05 | 107 | 70 | 130 | | | |
| Surr: BFB | 7100 | | 4744 | | 150 | 70 | 130 | | | S |

| Sample ID: 2202c23-003amsd | SampType: MSD | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SW-CPST | Batch ID: 65809 | RunNo: 86141 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035704 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 51 | 24 | 23.67 | 27.05 | 102 | 70 | 130 | 2.38 | 20 | |
| Surr: BFB | 7300 | | 4735 | | 154 | 70 | 130 | 0 | 0 | S |

| Sample ID: lcs-65808 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 65808 | RunNo: 86147 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035960 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 112 | 78.6 | 131 | | | |
| Surr: BFB | 1500 | | 1000 | | 153 | 70 | 130 | | | S |

| Sample ID: mb-65808 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 65808 | RunNo: 86147 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035961 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

| | | | |
|-----|--|----|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | 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 range due to dilution or matrix interference | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C23

08-Mar-22

Client: HILCORP ENERGY

Project: San Juan 27 4 60

| | | | | | | | | | | |
|-------------------------------|--------------------------|--|--------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: mb-65808 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
| Client ID: PBS | Batch ID: 65808 | RunNo: 86147 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035961 | 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 | 1200 | | 1000 | | 122 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E 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#: 2202C23

08-Mar-22

Client: HILCORP ENERGY**Project:** San Juan 27 4 60

| Sample ID: mb-65809 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 65809 | RunNo: 86141 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035742 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 70 | 130 | | | |

| Sample ID: LCS-65809 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 65809 | RunNo: 86141 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3035743 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.90 | 0.025 | 1.000 | 0 | 90.0 | 80 | 120 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 95.5 | 80 | 120 | | | |
| Ethylbenzene | 0.96 | 0.050 | 1.000 | 0 | 96.2 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.8 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 103 | 70 | 130 | | | |

| Sample ID: lcs-65808 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 65808 | RunNo: 86147 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3036041 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.94 | 0.025 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 95.7 | 80 | 120 | | | |
| Ethylbenzene | 0.96 | 0.050 | 1.000 | 0 | 96.5 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.3 | | 1.000 | | 127 | 70 | 130 | | | |

| Sample ID: mb-65808 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 65808 | RunNo: 86147 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 2/28/2022 | SeqNo: 3036042 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 70 | 130 | | | |

Qualifiers:

| | | | |
|-----|--|----|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | 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 range due to dilution or matrix interference | | |

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

WO#: 2202C23

08-Mar-22

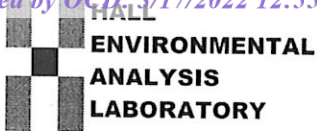
Client: HILCORP ENERGY**Project:** San Juan 27 4 60

| Sample ID: 2202C23-004AMS | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: NW-CPST | Batch ID: 65809 | RunNo: 86154 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 3/1/2022 | SeqNo: 3037123 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.79 | 0.12 | 0.9747 | 0 | 81.2 | 80 | 120 | | | |
| Toluene | 0.85 | 0.24 | 0.9747 | 0 | 87.0 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.24 | 0.9747 | 0.2016 | 88.0 | 80 | 120 | | | |
| Xylenes, Total | 4.5 | 0.49 | 2.924 | 1.569 | 100 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 5.1 | | 4.873 | | 105 | 70 | 130 | | | |

| Sample ID: 2202C23-004AMSD | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: NW-CPST | Batch ID: 65809 | RunNo: 86154 | | | | | | | | |
| Prep Date: 2/25/2022 | Analysis Date: 3/1/2022 | SeqNo: 3037124 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.81 | 0.12 | 0.9728 | 0 | 82.9 | 80 | 120 | 1.88 | 20 | |
| Toluene | 0.87 | 0.24 | 0.9728 | 0 | 89.1 | 80 | 120 | 2.13 | 20 | |
| Ethylbenzene | 1.1 | 0.24 | 0.9728 | 0.2016 | 92.9 | 80 | 120 | 4.21 | 20 | |
| Xylenes, Total | 4.7 | 0.49 | 2.918 | 1.569 | 106 | 80 | 120 | 3.63 | 20 | |
| Surr: 4-Bromofluorobenzene | 5.2 | | 4.864 | | 108 | 70 | 130 | 0 | 0 | |

Qualifiers:

| | | | |
|-----|--|----|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | 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 range due to dilution or matrix interference | | |



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

Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2202C23

RcptNo: 1

Received By: Cheyenne Cason

2/25/2022 8:00:00 AM

Completed By: Sean Livingston

2/25/2022 9:25:11 AM

Reviewed By:

jn 2/25/22

Cason

S. Livingston

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: KPG 2/25/22

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 $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.2 | Good | | | | |

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Turn-Around Time: *Need by 3/3/22*

☒ Standard ☐ Rush

Project Name: San Juan 27-4 #60

Project #: TE 0178 21 008

Project Manager: Stuart Hyde
stuart.hyde@wsf.com

Sampler: Reece Hanson

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 2.3-0.127.7 (°C)

Container
Type and #Preservative
Type

HEAL No.
220262

| Date | Time | Matrix | Sample Name |
|--------|------|--------|-------------|
| 2/2/22 | 1510 | So:1 | NE - CPST |
| | 1512 | | SE - CPST |
| | 1514 | | SW - CPST |
| | 1516 | | NW - CPST |
| | 1518 | | FLR-1 |
| | 1520 | | FLR-2 |
| | 1522 | | FLR-3 |

| | | |
|---------|-------|---|
| Date: | Time: | Relinquished by: |
| 6/23/22 | 600 |  |

| | | | |
|--------------|-------------|----------------|-------------|
| Received by: | Via: | Date | Time |
| <i>MA</i> | <i>West</i> | <i>2/23/22</i> | <i>1606</i> |

| | | |
|---------|-------|------------------|
| Date: | Time: | Relinquished by: |
| 2/23/22 | 1810 | Christi Ward |

Received by: Che Chen Via: 7/25/2018 Date: 7/25/2018 Time: 10:00

Remarks: CC: stuart.hyde@wsp.com
reese.hanson@wsp.com

Seal intact

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



December 7, 2021

New Mexico Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

**Subject: Remediation Work Plan
San Juan 27-4 Unit 60
Rio Arriba County, New Mexico
NMOCD Incident Number: NCS1929537483**

To Whom It May Concern:

WSP USA Inc. (WSP, formerly LT Environmental, Inc.), on behalf of Hilcorp Energy Company (Hilcorp), has prepared this *Remediation Work Plan* for the San Juan 27-4 Unit 60 natural gas production well (Site). The Site is located in Unit A of Section 21, Township 27 North, Range 04 West, within the Carson National Forest in Rio Arriba County, New Mexico (Figure 1).

SITE BACKGROUND

During an onsite inspection, Mr. Jonathan Kelly, an inspector with the New Mexico Oil Conservation Division (NMOCD), discovered a release originating from an out-of-service below-grade tank (BGT). Specifically, Mr. Kelly noted that melted snow had entered the BGT, mixing with bottom sludge and water, and exited through corrosion holes in the steel tank. It was estimated that 5 barrels of produced water was released at the Site. Upon discovery, Hilcorp cleaned and removed the BGT from the Site and LT Environmental, Inc. (LTE) collected one, 5-point composite soil sample from the area below the BGT (Figure 2). Analytical results from the composite sample are presented on Table 1.

SITE CHARACTERIZATION

As part of the site investigation, local geology/hydrogeology and nearby sensitive receptors were accessed in accordance with 19.15.29.11 of the New Mexico Administrative Code (NMAC). This information is further discussed below.

GEOLOGY AND HYDROGEOLOGY

Based on United States Geological Survey (USGS) geologic mapping, the Site is located within the Tertiary San Jose Formation. In the report titled "Hydrogeology and Water Resources of San Juan Basin, New Mexico" (Stone, Lyford, Frenzel, Mizell, & Padgett, 1983), the San Jose Formation is characterized by various lithologies including course-grained arkose, mudstones, and lenses of claystone, siltstone, and poorly consolidated sandstone. This formation ranges in thickness from 200 to 2,700 feet. The San Jose Formation is the youngest Tertiary bedrock unit in the San Juan Basin and is underlain by the Nacimiento Formation.

SITE CHARACTERIZATION AND POTENTIAL RECEPTORS

Assessment of potential nearby receptors was conducted through desktop reviews of topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, United States Geological Survey (USGS) GIS maps, New Mexico Office of the State Engineer database, and aerial photographs, as well as site-specific observations.

The Site is at an elevation of approximately 7,135 feet above mean sea level (amsl). The data sheet for a deep ground bed cathodic protection well (included as Enclosure A) for the Site indicates that groundwater at the Site is approximately 100 feet below ground surface (bgs). The nearest groundwater well to the Site (monitoring well SJ-01049) is located approximately 1.9 miles northwest of the Site. The closest water well to the Site (livestock well SJ-04056) is located approximately 3.3 miles west of the Site.

WSP USA
848 EAST 2ND AVENUE
DURANGO CO 81301

Tel.: 970-385-1096
wsp.com



The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any significant watercourse and/or wetland. The nearest wetland/watercourse is located approximately 900 feet south of the Site. Surface land use surrounding the Site consists primarily of oil and gas development and livestock grazing. No occupied permanent residence or structures, including schools, hospitals, institutions, and/or churches, are located within 300 feet of the Site. The Site is not within the area of a subsurface mine or unstable area and is not within the 100-year floodplain. Nearby receptors are shown on Figure 3.

REGULATORY CLOSURE CRITERIA

WSP has characterized the Site according to *Table 1, Closure Criteria for Soils Impacted by a Release* of 19.15.29.12 NMAC. Due to the Site being located on an active well pad and having a depth to groundwater greater than 100 feet, the following Table 1 Closure Criteria apply to the Site for delineation purposes: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 2,500 mg/kg total petroleum hydrocarbons (TPH); 1,000 mg/kg gasoline range organics (GRO) + diesel range organics (DRO); and 20,000 mg/kg chloride.

PROPOSED DELINEATION ACTIVITIES

In order to delineate potential petroleum hydrocarbon impacts to soil originating from the BGT release, WSP proposes to advance five borings at the Site using a hand auger in the locations indicated on Figure 4. During sampling, soil will be inspected for visual staining and the presence or absence of odor. The soil will be characterized by visually inspecting the soil samples and field screening the soil headspace using a photoionization detector (PID) to monitor for the presence of organic vapors. At least two soil samples will be collected from each boring and submitted to Hall Environmental Analysis Laboratory for analysis of TPH, BTEX, and chloride. For each boring, one soil sample displaying the highest PID and/or chloride field screening measurements will be submitted for laboratory analysis. One additional sample collected from the terminus of each boring will be submitted for laboratory analysis. Boring locations will be recorded using a handheld Global Positioning System (GPS) unit.

All soil analytical results will be compared to the site-specific Table 1 Closure Criteria. If analytical results are compliant with Table 1 Closure Criteria, Hilcorp will submit a report documenting sampling activities and request closure. If analytical results for any soil sample exceeds Table 1 Closure Criteria, Hilcorp will submit an updated remediation work plan to address the identified elevated concentrations in soil.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

WSP appreciates the opportunity to provide this work plan to the NMOC. If you have any questions or comments regarding this report, do not hesitate to contact Stuart Hyde at (970) 903-1607 or stuart.hyde@wsp.com, or Billy Ginn at (346) 237-2073 or William.ginn@hilcorp.com.

Kind regards,

Stuart Hyde, L.G.
Senior Geologist

Ashley Ager, M.S., P.G.
Regional Vice President, Geologist

Enclosed:

| | |
|-------------|--|
| Figure 1 | Site Location Map |
| Figure 2 | Soil Sample Locations Map |
| Figure 3 | Site Receptor Map |
| Figure 4 | Proposed Soil Boring Locations |
| Table 1 | Soil Analytical Results – BGT Closure Sampling |
| Enclosure A | Data Sheet for Deep Ground Bed Cathodic Protection Wells |

FIGURES

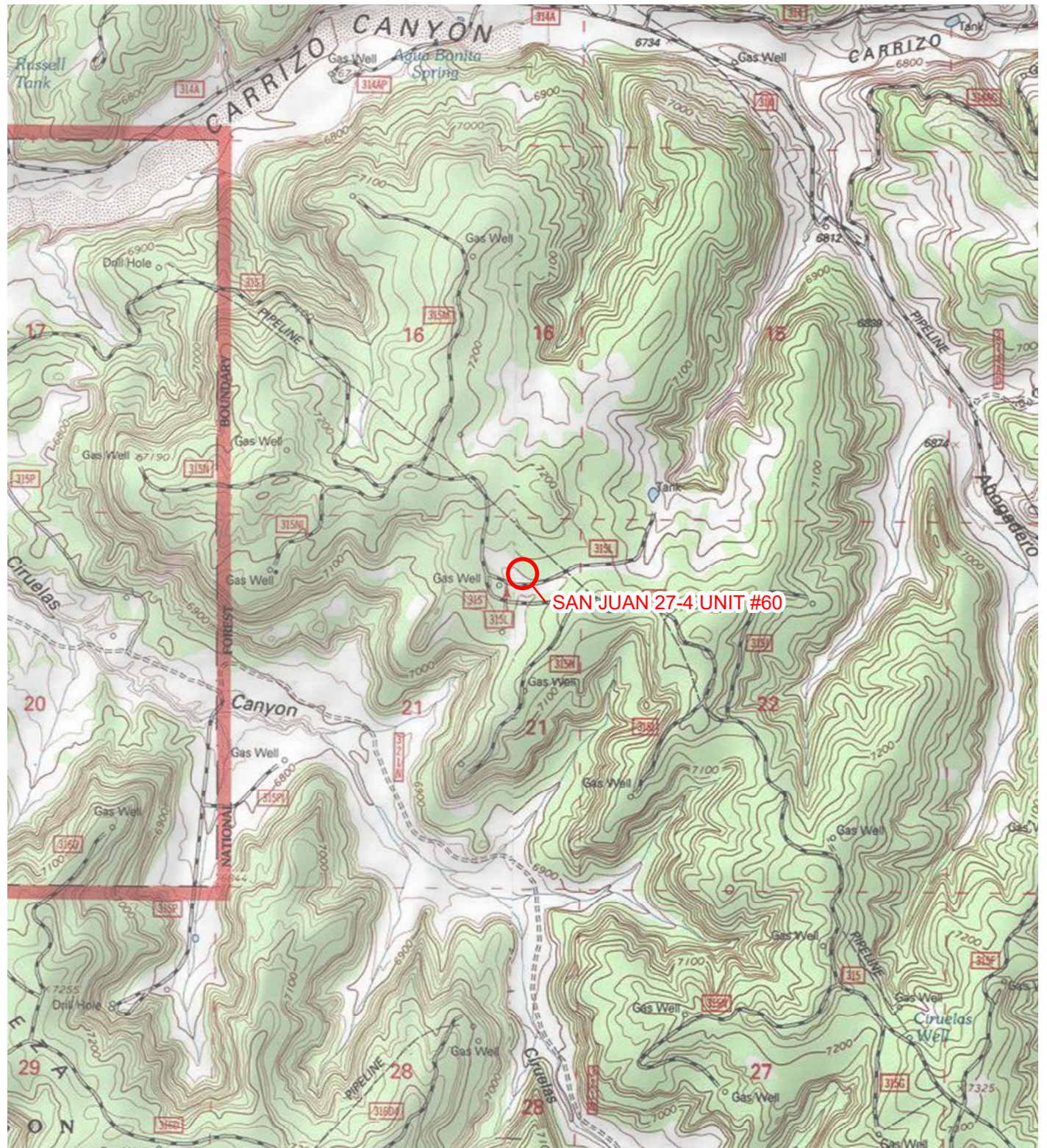


IMAGE COURTESY OF ESRI/USGS

LEGEND

○ SITE LOCATION

0 2,000 4,000
Feet



NEW
MEXICO

FIGURE 1
SITE LOCATION MAP
SAN JUAN 27-4 UNIT #60
NENE SEC 21-T27N-R4W
RIO ARriba COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

wsp

P:\hilcorp\GIS\MXD\017820011_SAN JUAN 27-4 UNIT 60\017820011_FIG01_SL.mxd



LEGEND

● SOIL SAMPLE

IMAGE COURTESY OF GOOGLE EARTH 2016

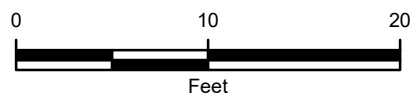


FIGURE 2
SOIL SAMPLE LOCATIONS MAP
SAN JUAN 27-4 UNIT #60
NENE SEC 21-T27N-R4W
RIO ARriba COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY



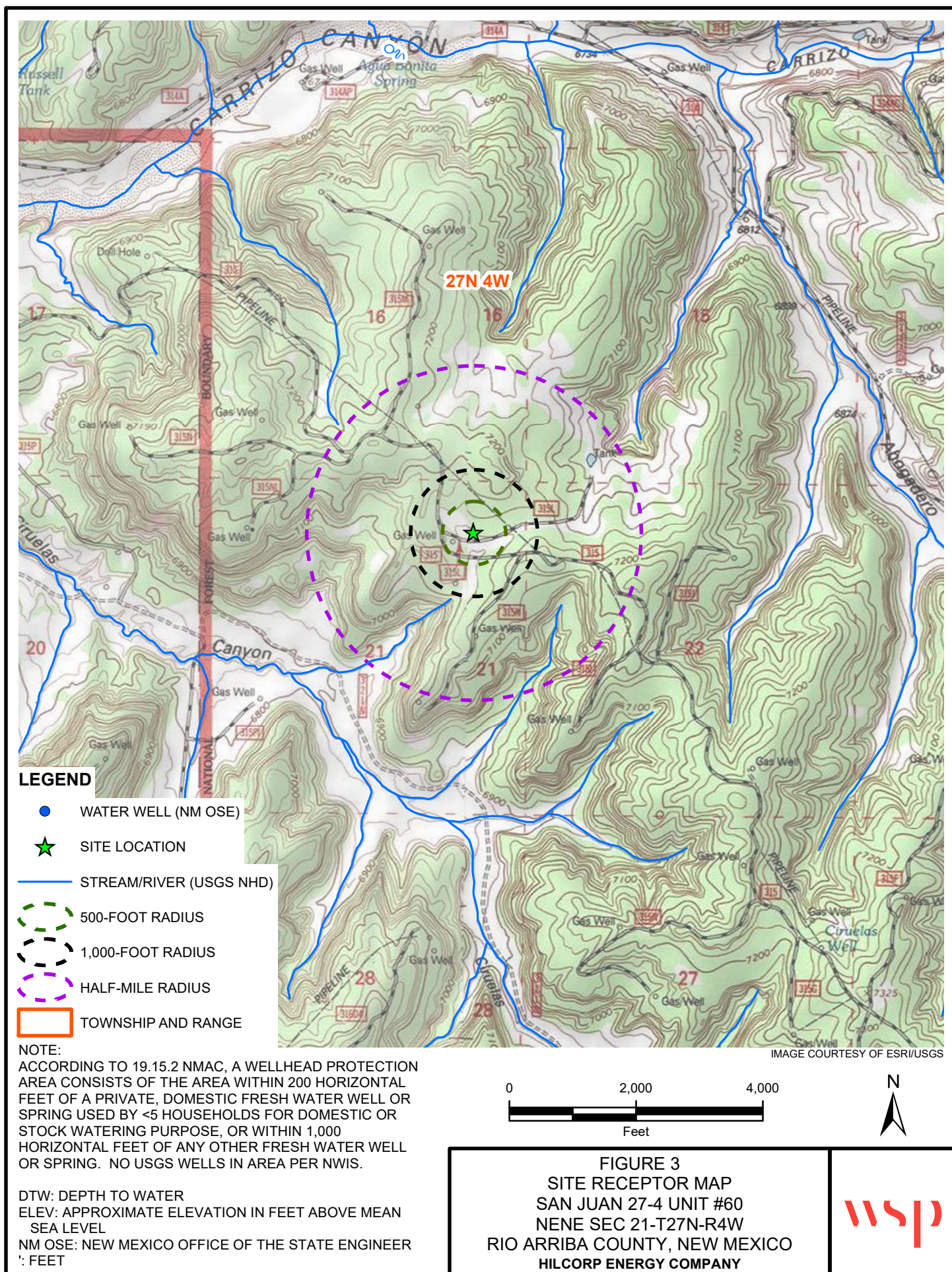




IMAGE COURTESY OF GOOGLE EARTH 2016

LEGEND

- SOIL SAMPLE
- PROPOSED SOIL BORING

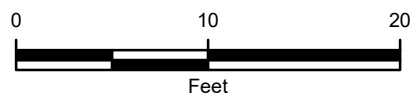


FIGURE 4
PROPOSED SOIL BORING LOCATIONS
SAN JUAN 27-4 UNIT #60
NENE SEC 21-T27N-R4W
RIO ARriba COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY



TABLES

TABLE 1
SOIL ANALYTICAL RESULTS - BGT CLOSURE SAMPLING

SAN JUAN 27-4 UNIT 60
RIO ARriba COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | MRO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|---------------------------------------|-------------------------|-------------|-----------------|-----------------|-----------------------|-----------------------|--------------------|-------------|-------------|-------------|-----------------------|--------------|------------------|
| CompA | 0 - 0.5 | 1/27/2020 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <20.0 | 270 | 168 | 270 | 438 | <20.0 |
| NMOCD Table 1 Closure Criteria | | | 10 | NE | NE | NE | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory reporting limits

ENCLOSURE A – DATA SHEET FOR DEEP GROUND BED CATHODIC
PROTECTION WELLS

#142 30-039-20484
#60 30-039-20484DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit A Sec. 21 Twp 27 Rng 04

Name of Well/Wells or Pipeline Serviced _____

SAN JUAN 27-4 UNITS #142, #60Elevation 7121 Completion Date _____ Total Depth 405' Land Type FCasing Strings, Sizes, Types & Depths 10/6 SET 99' OF 8" PVC CASINGNO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 20 SACKS

If Cement or Bentonite Plugs have been placed, show depths & amounts used

NONEDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 100' FreshDepths gas encountered: NONEGround bed depth with type & amount of coke breeze used: 405'58 SACKS OF LORESCO TYPE SWDepths anodes placed: 375, 335, 328, 321, 315, 295, 288, 280, 273, 267, 260, 240, 230, 223, 180Depths vent pipes placed: 405'Vent pipe perforations: Bottom 305'

Remarks: _____

RECEIVED

JAN 31 1994

OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

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 91072

CONDITIONS

| | |
|--|---|
| Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002 | OGRID: 372171 |
| | Action Number: 91072 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| nvelez | None | 3/23/2022 |