

April 15, 2024

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: First Quarter 2024 – SVE System Update

San Juan 32-9 #41A San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident No: NAPP2108949980

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *First Quarter 2024 – SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the San Juan 32-9 #41A natural gas production well (Site) on land managed by the Bureau of Land Management (BLM) in Unit P, Section 31, Township 32 North, Range 9 West in San Juan County, New Mexico (Figure 1). The SVE system was put into full time operation on October 9, 2023, to remediate subsurface soil impacts resulting from approximately 15 barrels (bbls) of natural gas condensate released from an aboveground storage tank. This report summarizes Site activities performed in January, February, and March 2024.

SVE SYSTEM SPECIFICATIONS

The SVE system at the Site consists of a 3-phase, 5 horsepower Howden Roots 32 URAI rotary lobe blower capable of producing 112 cubic feet per minute (cfm) flow at 82 inches of water column (IWC) vacuum. The system is powered by a permanent power drop and is intended to run 24 hours per day. Three SVE wells are currently in operation and are shown on Figure 2. SVE wells SVE01, SVE02, and SVE03 are screened to 16 feet below ground surface (bgs) to address residual soil impacts in the unsaturated zone.

FIRST QUARTER 2024 ACTIVITIES

The SVE system began operation on October 9, 2023. Based on the New Mexico Oil Conservation Division (NMOCD) Conditions of Approval (COAs), dated March 29, 2023, field data measurements were collected from the system biweekly throughout first quarter 2024. Field measurements included the following parameters: total system flow, estimated flow rates from each SVE well, photoionization detector (PID) measurements of volatile organic compounds (VOCs) from each SVE well, vacuum measurements from each SVE well, and oxygen/carbon dioxide measurements via hand-held analyzers from each SVE well. Field notes taken during operations and maintenance (O&M) visits are presented in Appendix A.

Since startup, all Site SVE wells were operated in order to induce flow in impacted soil zones. Between December 28, 2023, and March 19, 2024, the SVE system operated for 1,940.9 hours for a runtime efficiency of 99 percent (%). Appendix B presents photographs of the runtime meter

for calculating the first quarter 2024 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percent runtime.

Based on the March 2023 COAs, vapor samples were collected from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler bimonthly following the first quarter of operation. Prior to collection, the vapor sample was field screened with a PID for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar® bags and submitted to Hall Environmental Analysis Laboratory (now Eurofins Environment Testing) in Albuquerque, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, VOCs following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. Tables 2 and 3 present a summary of field measurements and analytical data, respectively, collected between December 2023 and March 2024. Note: analytical data from the last sampling event of fourth quarter 2023, conducted on December 28, 2023, had not been received from the laboratory at the time of previous quarterly report submittal; this data is included in this report. Full laboratory analytical reports are attached as Appendix C. Graphs 1 and 2 present oxygen and carbon dioxide levels over time, respectively.

Vapor sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 4). Based on these estimates, 3,262 pounds (1.63 tons) of TVPH have been removed by the system to date. No phase-separated hydrocarbons were recovered from the system during the O&M and sampling period described above.

DISCUSSION AND RECOMMENDATIONS

Ensolum installed pitot tubes to replace the individual well rotameters in January 2024 in order to obtain more accurate data on the individual well legs.

A decrease in total system flow rate was observed throughout the quarter and is attributed to issues with condensation buildup passing through the knockout tank and into the blower, causing a drop in performance. The blower was serviced in February 2024 and returned into service; however, following a planned maintenance shut down on March 19, 2024, the blower could not be restarted, and the motor could not be turned over by hand. Blower evaluation identified that moisture buildup had caused the motor to seize, and the blower would need to be replaced. A replacement blower was procured at the end of March 2024; however, the existing blower was able to be restarted without replacement on March 27, 2024. Demister material will be installed within the knockout tank prior to to minimize the risk of moisture buildup and associated damage.

Monthly O&M visits, at a minimum, and bi-monthly (every other month) sampling events will continue to be performed by Ensolum and/or Hilcorp personnel to ensure the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report.



We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this report, please contact the undersigned.

Sincerely,

Ensolum, LLC

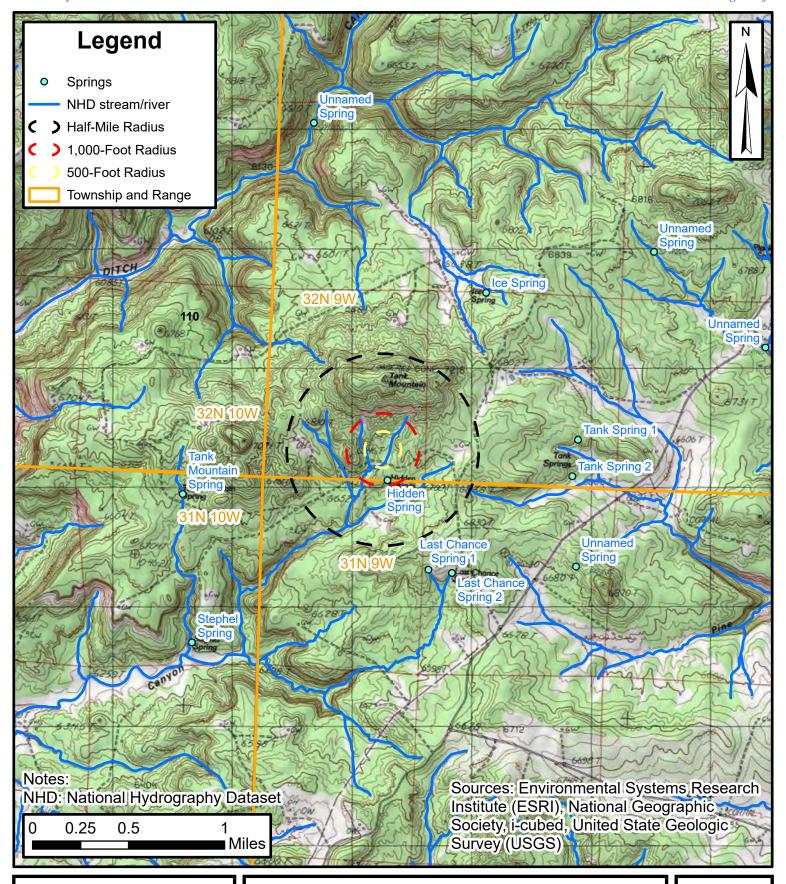
Stuart Hyde, PG Senior Geologist (970) 903-1607 shyde@ensolum.com Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

| Figure 1 | Site Location Map |
|------------|---|
| Figure 2 | SVE System Radius of Influence and Radius of Effect |
| Table 1 | Soil Vapor Extraction System Runtime Calculations |
| Table 2 | Soil Vapor Extraction System Field Measurements |
| Table 3 | Soil Vapor Extraction System Air Analytical Results |
| Table 4 | Soil Vapor Extraction System Mass Removal and Emissions |
| Graph 1 | Oxygen vs Time |
| Graph 2 | Carbon Dioxide vs Time |
| Appendix A | Field Notes |
| Appendix B | Project Photographs |
| Appendix C | Laboratory Analytical Reports |



Figures



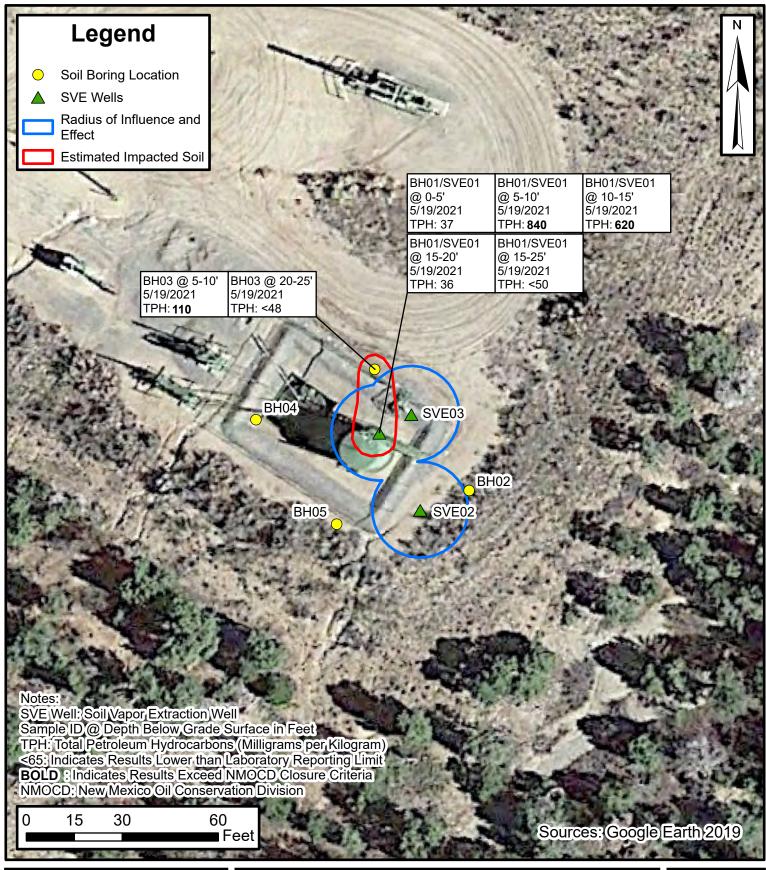


Site Location Map

San Juan 32-9 #41A Hilcorp Energy Company

SEC 31-T32N-R9W San Juan County, New Mexico **FIGURE**

1





SVE System Radius of Influence and Radius of Effect

San Juan 32-9 #41A Hilcorp Energy Company SEC 31-T32N-R9W

SEC 31-T32N-R9W San Juan County, New Mexico FIGURE

2



Tables & Graphs



TABLE 1 SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

San Juan 32-9 #41A Hilcorp Energy Company San Juan County, New Mexico

| Date | Total Operational Hours | Delta Hours | Days | Quarterly Percent Runtime | Percent Runtime |
|------------|----------------------------|-------------|------|------------------------------|-----------------|
| 10/9/2023 | 1.3 | Startup | | | |
| 12/28/2023 | 1,916.1 | 1,914.8 | 80 | 100% | 100% |
| 3/19/2024 | 3,857.0 | 1,940.9 | 82 | 99% | 99% |

Ensolum 1 of 1

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TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS San Juan 32-9 #41A Hilcorp Energy Company San Juan County, New Mexico PID Flow Rate Carbon Dioxide Differential SVE Well ID Date Flow Rate (acfm) Vacuum (IWC) Vacuum (psi) Oxygen (%) Pressure (IWC) (scfm)(1)(2) (ppm) (%) 10/9/2023 1.783 20.9 0.00 3.4 161 99 88.0 3.2 10/10/2023 1.646 3.4 161 99 90.0 3.2 20.9 0.00 118 62.0 2.2 20.1 10/13/2023 667 4.1 177 0.62 10/19/2023 2.143 4.9 194 133 52.0 1.9 20.5 0.40 10/26/2023 195 5.2 199 137 52.0 19 10/31/2023 440 5.2 199 138 49.0 1.8 11/8/2023 422 5.2 199 136 52.0 1.9 19.8 0.00 11/16/2023 541 5.2 199 137 51.7 19 Influent, All Wells 11/28/2023 91 5.3 201 137 54.4 2.0 12/7/2023 231 6.0 214 147 50.0 1.8 12/13/2023 317 5.6 207 141 54.4 2.0 12/28/2023 232 5.7 209 140 59.8 2.2 1/19/2024 173 5.0 195 129 62.0 2.2 20.9 0.16 112 161 131.9 4.8 2/7/2024 86 172 4.6 2/20/2024 282 3.9 93 127.8 174 3/5/2024 180 4.0 95 125.1 4.5 3/19/2024 10/9/2023 1,816 34 72.1 2.6 20.9 0.00 10/10/2023 1,734 38 73.4 2.6 20.9 0.00 39.0 1.4 10/13/2023 395 >50 20.9 0.22 10/19/2023 435 >50 26.0 0.9 20.7 0.28 10/26/2023 116 >50 26.0 0.9 20.2 0.00 20.5 10/31/2023 368 >50 1.8 0.1 0.18 437 11/8/2023 >50 22.0 0.8 20.0 0.08 514 11/16/2023 >50 21.7 0.8 19.2 0.18 SVE01 55 >50 22.7 19.8 11/28/2023 0.8 0.02 12/7/2023 240 >50 22.7 0.8 19.1 0.06 22.7 12/13/2023 137 >50 0.8 19.2 0.00 33.3 19.1 12/28/2023 275 >50 1.2 0.02 1/19/2024 274 >50 28.0 1.0 20.9 0.12 0.1 26 2/7/2024 372 15 116.3 4.2 20.9 0.09 2/20/2024 343 0.5 61 35 110.9 4 0 20.9 0.13 3/5/2024 276 0.5 59 34 104.3 3.8 20.9 0.12 3/19/2024 10/9/2023 307 2 80.7 2.9 20.9 0.00 3.0 10/10/2023 291 2 83.8 20.9 0.00 10/13/2023 84 <2 48.0 1.7 20.9 0.16 10/19/2023 28 <2 46.0 1.7 20.9 0.28 10/26/2023 46 48.0 17 20.7 0.00 10/31/2023 8 3 3.2 0.1 20.9 0.04 11/8/2023 49 5 44.0 1.6 19.6 0.54 11/16/2023 95 36.5 1.3 19.1 0.46 SVE02 11/28/2023 108 3 37.5 1.4 19.6 0.04 12/7/2023 66 5 39.0 1.4 19.1 0.10 12/13/2023 50 39.0 1.4 19.1 0.16 12/28/2023 30 44.8 1.6 19.1 0.00 1/19/2024 37 50.0 1.8 20.9 0.44 0.0 9 2/7/2024 56 20.1 0.7 20.9 0.07 0 1.7 105 0.0 0 46.6 20.9 0.07 2/20/2024 1.3 0.04 3/5/2024 96 0.0 0 0 36.1 20.9

3/19/2024

ENSOLUM

TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS San Juan 32-9 #41A Hilcorp Energy Company San Juan County, New Mexico Flow Rate PID Differential Carbon Dioxide SVE Well ID Vacuum (IWC) Vacuum (psi) Date Flow Rate (acfm) Oxygen (%) Pressure (IWC) (scfm)⁽¹⁾⁽²⁾ (ppm) (%) 10/9/2023 524 26 76.3 2.8 20.1 0.00 2.8 1.6 10/10/2023 411 24 77.2 19.2 0.00 10/13/2023 448 18 43.0 20.3 0.64 10/19/2023 180 14 38.0 1.4 20.7 0.34 10/26/2023 77 14 52.0 1.9 20.3 0.00 10/31/2023 63 14 35.4 1.3 20.9 0.04 11/8/2023 312 14 36.0 1.3 19.1 0.72 11/16/2023 315 19.1 0.26 29.4 SVE03 48 14 33.2 1.2 19.6 11/28/2023 0.06 12/7/2023 134 32.0 1.2 19.0 0.24 30 12/13/2023 112 14 36.2 1.3 19.1 0.14 1.4 12/28/2023 71 15 19.1 38.1 0.08 85 1.0 1/19/2024 16 28.0 20.9 0.20 0.6 69 1.0 20.9 2/7/2024 33 50 28.0 0.05 2/20/2024 64 69 39 111.4 4.0 20.9 0.06 0.6 3/5/2024 50 0.9 85 48 111.5 4.0 20.9 0.06 3/19/2024

Notes:

(1): individual well flow rates in scfm estimated based on rotometer field measurements

(2): total system flow rates in scfm calculated based on pitot tube differential pressure measurements

IWC: inches of water column

PID: photoionization detector

ppm: parts per million

acfm: actual cubic feet per minute

scfm: standard cubic feet per minute

%: percent

--: not measured

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TABLE 3

SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS

San Juan 32-9 #41A Hilcorp Energy Company San Juan County, New Mexico

| Date | PID (ppm) | Benzene (µg/L) | Toluene (μg/L) | Ethylbenzene (μg/L) | Total Xylenes (μg/L) | TVPH/GRO (µg/L) | Oxygen (%) | Carbon Dioxide (%) |
|------------|--------------|-------------------|-------------------|------------------------|-------------------------|--------------------|---------------|-----------------------|
| 10/9/2023 | 1,574 | 46 | 130 | 13 | 130 | 17,000 | 19.92% | 1.81% |
| 10/10/2023 | 1,483 | 17 | 73 | 7.6 | 76 | 13,000 | 20.56% | 1.03% |
| 10/19/2023 | 397 | <5.0 | 39 | <5.0 | 110 | 5,400 | 21.40% | 0.42% |
| 10/31/2023 | 440 | <1.0 | 14 | 2.0 | 73 | 2,100 | 21.49% | 0.35% |
| 11/8/2023 | 422 | <0.50 | 12 | 2.0 | 92 | 3,400 | 21.56% | 0.28% |
| 11/16/2023 | 541 | <5.0 | 9.6 | <5.0 | 64 | 2,600 | 21.43% | 0.23% |
| 11/28/2023 | 91 | <0.10 | 0.91 | 0.14 | 6.6 | 350 | 21.67% | 0.06% |
| 12/13/2023 | 317 | <0.50 | 3.3 | 0.60 | 27 | 1,400 | 21.72% | 0.18% |
| 12/28/2023 | 232 | <0.50 | 2.7 | 0.59 | 23 | 1,400 | 21.56% | 0.19% |
| 1/19/2024 | 173 | <0.50 | 1.3 | < 0.50 | 8.1 | 560 | 21.78% | 0.17% |
| 3/5/2024 | 180 | 0.49 | 9.9 | <2.0 | 21 | 980 | 21.78% | 0.21% |

Notes:

GRO: gasoline range hydrocarbons

μg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

<: gray indicates result less than the stated laboratory reporting limit (RL)</p>

Ensolum 1 of 1



TABLE 4 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS

San Juan 32-9 #41A Hilcorp Energy Company San Juan County, New Mexico

Laboratory Analysis

| Date | PID (ppm) | Benzene (μg/L) | Toluene (μg/L) | Ethylbenzene (μg/L) | Total Xylenes (μg/L) | TVPH (μg/L) |
|------------|--------------|-------------------|-------------------|------------------------|-------------------------|----------------|
| 10/9/2023 | 1,574 | 46 | 130 | 13 | 130 | 17,000 |
| 10/10/2023 | 1,483 | 17 | 73 | 7.6 | 76 | 13,000 |
| 10/19/2023 | 397 | 5.0 | 39 | 5.0 | 110 | 5,400 |
| 10/31/2023 | 440 | 1.0 | 14 | 2.0 | 73 | 2,100 |
| 11/8/2023 | 422 | 0.50 | 12 | 2.0 | 92 | 3,400 |
| 11/16/2023 | 541 | 5.0 | 10 | 5.0 | 64 | 2,600 |
| 11/28/2023 | 91 | 0.10 | 0.91 | 0.14 | 6.6 | 350 |
| 12/13/2023 | 317 | 0.50 | 3.3 | 0.60 | 27 | 1,400 |
| 12/28/2023 | 232 | 0.50 | 2.7 | 0.59 | 23 | 1,400 |
| 1/19/2024 | 173 | 0.50 | 1.3 | 0.50 | 8.1 | 560 |
| 3/5/2024 | 180 | 0.50 | 9.9 | 2.0 | 21 | 980 |
| Average | 532 | 7 | 27 | 3 | 57 | 4,381 |

Vapor Extraction Summary

| | | | <u>.</u> | or Extraoriori canni | | | | |
|------------|---------------------|------------------------|--------------------|----------------------|--------------------|-------------------------|--------------------------|-----------------|
| Date | Flow Rate (scfm) | Total System Flow (cf) | Delta Flow (cf) | Benzene (lb/hr) | Toluene (lb/hr) | Ethylbenzene (lb/hr) | Total Xylenes (lb/hr) | TVPH (lb/hr) |
| 10/9/2023 | | | | System | Startup | | | |
| 10/10/2023 | 99 | 152,658 | 152,658 | 0.0117 | 0.038 | 0.0038 | 0.038 | 5.6 |
| 10/19/2023 | 133 | 1,872,348 | 1,719,690 | 0.0048 | 0.024 | 0.0027 | 0.040 | 4.0 |
| 10/31/2023 | 138 | 4,228,836 | 2,356,488 | 0.00152 | 0.0134 | 0.00177 | 0.046 | 1.9 |
| 11/8/2023 | 136 | | - | - | | | | |
| 11/16/2023 | 137 | 7,402,578 | 3,173,742 | 0.00154 | 0.0061 | 0.00180 | 0.035 | 1.21 |
| 11/28/2023 | 137 | 9,767,472 | 2,364,894 | 0.00131 | 0.0027 | 0.00132 | 0.018 | 0.76 |
| 12/13/2023 | 141 | 12,791,076 | 3,023,604 | 0.00016 | 0.0011 | 0.00019 | 0.009 | 0.45 |
| 12/28/2023 | 140 | 15,806,676 | 3,015,600 | 0.00026 | 0.0016 | 0.00031 | 0.013 | 0.74 |
| 1/19/2024 | 129 | 19,893,396 | 4,086,720 | 0.00025 | 0.0010 | 0.00027 | 0.008 | 0.49 |
| 3/5/2024 | 95 | 26,037,996 | 6,144,600 | 0.00021 | 0.0023 | 0.00052 | 0.006 | 0.32 |
| | | | Average | 0.0024 | 0.010 | 0.0014 | 0.024 | 1.7 |

Mass Recovery

| | | | | , | | | | |
|------------|----------------------------|---------------------|---------------------|---------------------|--------------------------|---------------------------|------------------|----------------|
| Date | Total Operational Hours | Delta Hours | Benzene (pounds) | Toluene (pounds) | Ethylbenzene (pounds) | Total Xylenes (pounds) | TVPH (pounds) | TVPH (tons) |
| 10/9/2023 | | | | System | Startup | | | |
| 10/10/2023 | 26 | 26 | 0.30 | 0.97 | 0.098 | 0.98 | 143 | 0.071 |
| 10/19/2023 | 241 | 216 | 1.03 | 5.2 | 0.59 | 8.7 | 860 | 0.43 |
| 10/31/2023 | 526 | 285 | 0.43 | 3.8 | 0.50 | 13.2 | 541 | 0.27 |
| 11/8/2023 | | | | | | | | - |
| 11/16/2023 | 912 | 386 | 0.60 | 2.3 | 0.69 | 13.6 | 467 | 0.23 |
| 11/28/2023 | 1,200 | 288 | 0.38 | 0.77 | 0.38 | 5.2 | 217 | 0.109 |
| 12/13/2023 | 1,557 | 357 | 0.06 | 0.39 | 0.07 | 3.1 | 163 | 0.081 |
| 12/28/2023 | 1,916 | 359 | 0.09 | 0.57 | 0.11 | 4.7 | 264 | 0.132 |
| 1/19/2024 | 2,444 | 528 | 0.13 | 0.53 | 0.14 | 4.1 | 260 | 0.130 |
| 3/5/2024 | 3,522 | 1,078 | 0.23 | 2.53 | 0.56 | 6.6 | 348 | 0.174 |
| | Total Ma | ss Recovery to Date | 3.2 | 17.2 | 3.2 | 60 | 3,262 | 1.63 |

Notes:

cf: cubic feet

scfm: cubic feet per minute

μg/L: micrograms per liter

lb/hr: pounds per hour

PID: photoionization detector

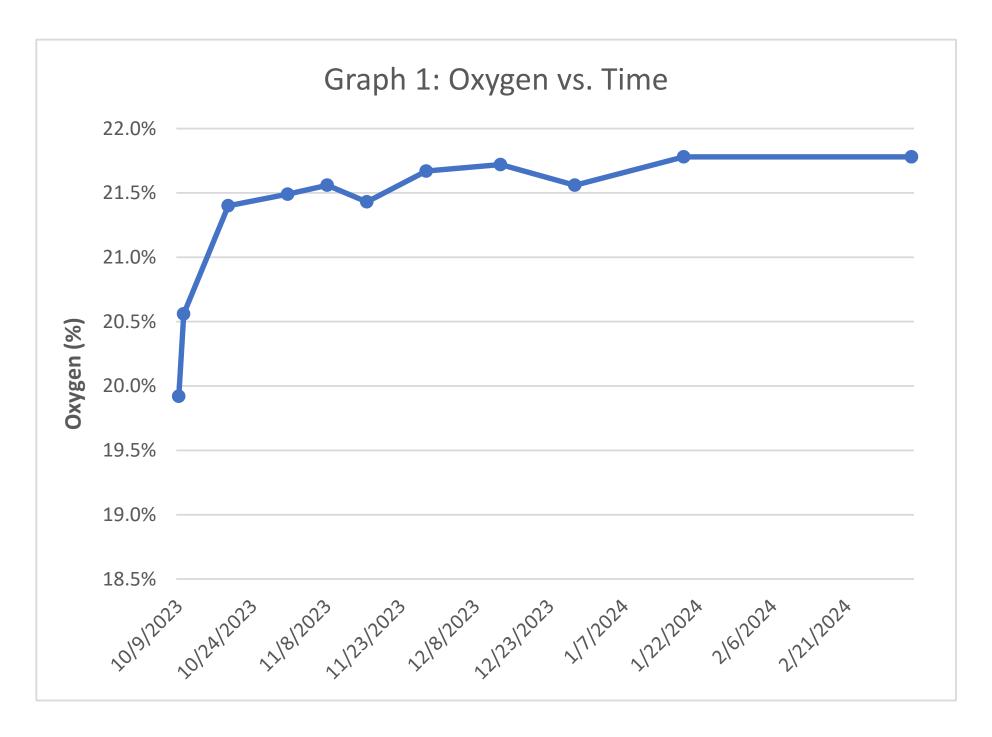
ppm: parts per million

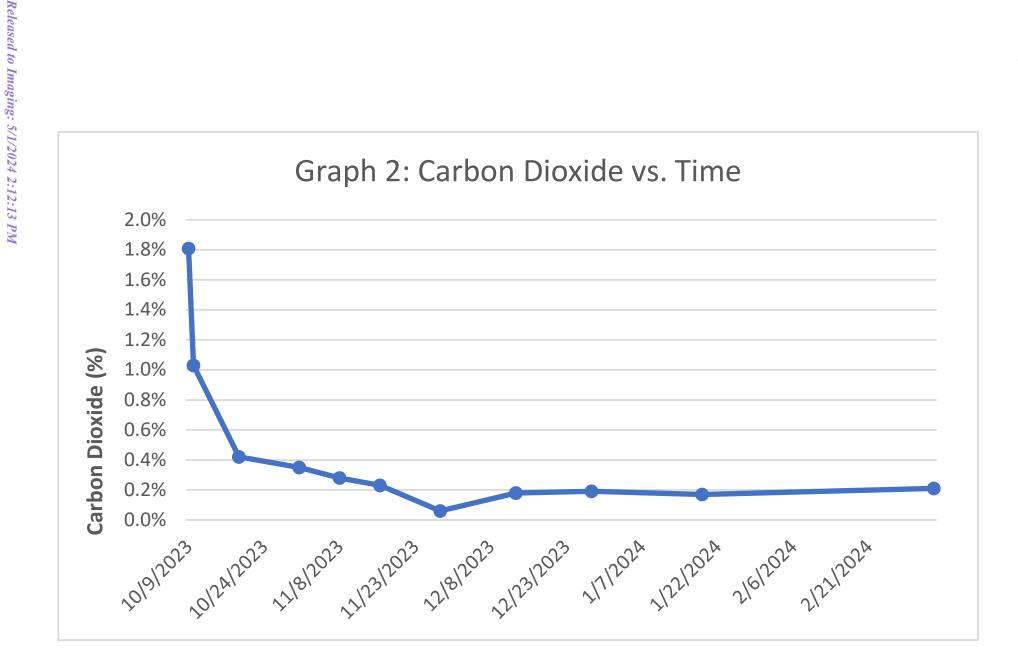
TVPH: total volatile petroleum hydrocarbons

--: not measured

gray: laboratory reporting limit used for calculating emissions

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APPENDIX A

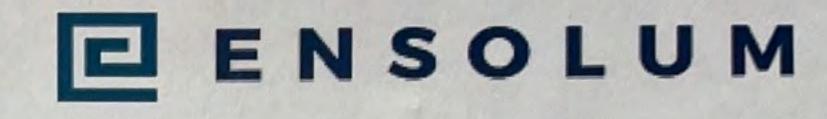
Field Notes

Location JJ 32-9 41A Date 1-19-24 Sunny, 30's Project / Client HEC Truck, HVAS, PID, 6 gas 1015 - Onsite for OHM + sampling. Review HASP + JSA System running upon arrivel -3 wells running, SVEOL, UZ, 03 SVE system readings @ 12.15 Blower Hours - 2,444.2 @12.45 Total Flow - 70 SIFM Inlet Vac - 62 we Diff. Press - 4,95 inc Inlet PID - 173 spm Exhaust PW - 403 FPM Temp - 100 F KO Tonk Level - ~ 3 inches Amt. Drained - 8 gallons INC Frm D. F. Pres Well head Vac PIE Flow INNE > 50 SEP 28 274 NM THU INDENST 50 37 (2 0.03 03 85 0.19 CHA OX HUS CO (02 1/ CHy/LEL 01-360 219 0.0 0.12 02.250 20 9 0.0 0.44 03-175 20.9 6.0 0.20 Influent 360 20.9 0.0 0.16 2:20 - Influent 1-19-24 collected.

Project / Chent

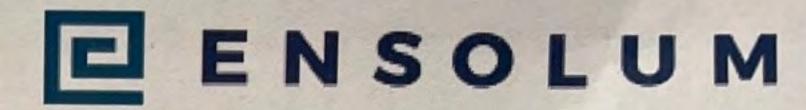
| Need | | | | |
|------|-------------------|------------|----------------|-----------|
| 72" | hose or | vi pple | fer | |
| | 10 PVC Pitot 3 | | ~5. | H el(? |
| con | see it | Pito 2" | t tube HDPl | |
| 10" | POTOTON | 30" | T W | ml |
| | | | Ro | and C |

Location SJ 32-9 #41A Date 2-2-24 DB Truck, HVAS, PID, 6-gas 305 1215 - Onsite for OHM. SUE system running upon arrival. 3 wells See Oth Form for details. Bryan Hall Onside W/ Hilcorp pumper. -Need to service pump motos up electrical connection. Checking voltages, etc. Will have to post pone 07/19 once system back online. 1400- Offsite Released to Imaging: 5/1/2024 2:12:13 PM



SAN JUAN 32-9 #41A SVE SYSTEM O&M FORM

| WEEKLY MAINTENANCE: Blower Bearing Grease QUARTERLY MAINTENANCE: Blower Oil Change SVE SYSTEM READING TIME Blower Hours (take photo) 3 1 92 1 12 19 Total-Flow (scfm)- Inlet Vacuum (IHG) 9 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | Check/Date ICE: Blower Bearing Grease ICE: Blower Oil Change READING TIME Oto) 3 192.1 12 19 HG) WC) 3 68 PID 3 22.2 2 Surre Bevel Bons) SVE SYSTEM - QUARTERLY SAMPLING EID: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) ILLS INTS A i f + pres | SVE ALARMS: | | SVE SYSTEM - MONTHL | . T O&IVI | | |
|--|--|------------------------------|-----------------------|-------------------------|-------------------------|----------------|-------------|
| SVE SYSTEM READING TIME Blower Hours (take photo) Total-Flow (scfm) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID Exhaust PID K/O Tank Liquid Level K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | CE: Blower Bearing Grease CE: Blower Oil Change | OVE ALARIVIS: | | KO TANK HIGH LEVEL | | | |
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| Blower Hours (take photo) Total-Flow (scfm) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID Inlet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SVE SYSTEM - QUARTERLY SAMPLING SAMPLE TIME: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) A if f pres | UARTERLY MAINTENANCE: | Blower Oil Change | | | | |
| Blower Hours (take photo) Total Flow (scfm) Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID Exhaust PID Inlet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SVE SYSTEM - QUARTERLY SAMPLING SAMPLE TIME: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) A if f pres | SVE SYSTEM | READING | TIME | | | |
| Inlet Vacuum (IHG) Differential Pressure (IWC) Inlet PID Exhaust PID Inlet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SVE SYSTEM - QUARTERLY SAMPLING SID: SAMPLE TIME: Stes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) SILLS A: f + pres | Blower Hours (take photo) | 21971 | | | | |
| Differential Pressure (IWC) Inlet PID Exhaust PID Inlet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SVE SYSTEM - QUARTERLY SAMPLING SID: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) SILLS At f f pres | Inlet Vacuum (IHG) | Q U | | | | |
| Exhaust PID 3 8 2 . 2 Inlet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: SAMPLE TIME: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SVE SYSTEM - QUARTERLY SAMPLING SID: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) SILLS On: A if f pres | Differential Pressure (IWC) | 3,88 | | | | |
| Inlet Temperature K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SVE SYSTEM - QUARTERLY SAMPLING EID: SAMPLE TIME: rtes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) ELLS On: A if f pres | | 281.8 | | | | |
| K/O Tank Liquid Level K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: SAMPLE TIME: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SVE SYSTEM - QUARTERLY SAMPLING SAMPLE TIME: rtes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) FILLS On: A if f pres | Inlet Temperature | 382.2 | | | | |
| K/O Liquid Drained (gallons) SVE SYSTEM - QUARTERLY SAMPLING SAMPLE ID: SAMPLE TIME: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SVE SYSTEM - QUARTERLY SAMPLING SAMPLE TIME: rtes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) LLS on: diff fores | K/O Tank Liquid Level | | | | | |
| SAMPLE ID: SAMPLE TIME: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SAMPLE TIME: ytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) the control of t | K/O Liquid Drained (gallons) | 55 | | | | |
| SAMPLE ID: SAMPLE TIME: Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | SAMPLE TIME: ytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) the control of t | | | VE OVOTEN OULABTERLY | OAMBUNO. | | |
| Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) | n: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) TLLS NTS d;ff pres | SAMPLE ID: | 5 | | SAMPLING | | |
| | n: diff pres | | Sample Bi-Weekly (eve | | 15), BTEX (8260), Fixed | Gas (CO2 AND O | 2) |
| OPERATING WELLS | NTS diff pres | OPERATING WELLS | | | | | |
| | NTS diff pres | | | | | | |
| Change in Well Operation: | | Change in Well Operation: | | | | | |
| | | | | | 1 0 1 | | |
| CELLIEAD MEXICONEMENT | THE PROPERTY OF THE PROPERTY O | ELLHEAD MEASUREMENTS | | L DID LIEADODA OF (DDM) | | | LOADBON DIO |
| WILLIE THE THE THE TABLE TO THE TRANSPORT TO THE TRANSPOR | | | VACUUM (IHG) | PID HEADSPACE (PPM) | - 110 | 200 | |
| OVEC: TAU TO DO DO DO DO | | SVE01 | 119,9 | 104.5 | 7.10 | 500 | 1260 |
| | | 0)/500 | 10.0 | 64 | 0,62 | 20.9 | |
| OVLUZ OV | 46.6 104.6 0.00 20.9 740 | SVE02 | | | | | |
| | | | 46.6 | 64 | A 2 - | | |
| 3VL02 /11 | 46.6 104.6 0.00 20.9 740 | | | | | 20,1 | 010 |



SAN JUAN 32-9 #41A SVE SYSTEM O&M FORM

| DATE: TIME ONSITE: | | O&M PERSONNEL: TIME OFFSITE: | B Sincle | ir | |
|--|-----------------------|---------------------------------|-------------------------|-----------------|----------------|
| | | SVE SYSTEM - MONTHL | VOSM | | |
| 0) /= | | | . T Oalvi | | |
| SVE ALARMS: | | KO TANK HIGH LEVEL | | | |
| | | Check/Date | | | |
| WEEKLY MAINTENANCE: | Blower Bearing Grease | | | | |
| QUARTERLY MAINTENANCE: | Blower Oil Change | | | | |
| SVE SYSTEM | READING | TIME | | | |
| Blower Hours (take photo) | 3522. | 12 19 | | | |
| Total Flow (scfm) | | | | 4 | |
| Inlet Vacuum (IHG) Differential Pressure (IWC) | 3 9 7 | | | | |
| Inlet PID | | | | | |
| Exhaust PID | 302.3 | | | | |
| Inlet Temperature | | | | | |
| K/O Tank Liquid Level K/O Liquid Drained (gallons) | | | | | |
| ree Eiquid Brained (gallerie) | 3/ | | | | |
| CONTRACTOR OF THE PROPERTY OF | | VE SYSTEM - QUARTERLY | SAMPLING | | |
| SAMPLE ID: | | SAMPLE TIME: | 45) DTEV (0000) Fired | C (CO2 AND O2 | |
| OPERATING WELLS | | ery other week) for TVPH (80 | 15), BIEX (8260), FIXED | Gas (CO2 AND O2 | -) |
| | | | | 62 1 2 27 | |
| Change in Well Operation: | | | | | |
| WELLHEAD MEASUREMENTS | | | diff pres | | |
| WELL ID | VACUUM (IHG) | PID HEADSPACE (PPM) | FLOW (CEM) | OXYGEN | CARBON DIOXIDE |
| SVE01 | 104.3 | 94.3 | 0.00 | 20.9 | 1200 |
| SVE02 SVE03 | 111,5 | 50.3 | -0.94 | 20.9 | 600 |
| | IANICE. | | | | |
| COMMENTS/OTHER MAINTEN | ANCE: | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

ENSOLUM

SAN JUAN 32-9 #41A SVE SYSTEM O&M FORM

| DATE: TIME ONSITE: | 3-19 | O&M PERSONNEL: TIME OFFSITE: | | eic | |
|---|-----------------------|--|-------------------------|------------------|----------------|
| | | SVE SYSTEM - MONTH | LY O&M | | |
| SVE ALARMS: | | KO TANK HIGH LEVEL | | | |
| WEEKLYMAINTEN | | Check/Date / | | | |
| WEEKLY MAINTENANCE: QUARTERLY MAINTENANCE: | Blower Bearing Grease | e de la constante de la consta | | | |
| | blower Oil Change | | | | |
| SVE SYSTEM | READING | TIME | | | |
| Blower Hours (take photo) | 90570 | 1244 | | | |
| Total Flow (scfm) Inlet Vacuum (IHG) | | Commence of the second second second | | | |
| Differential Pressure (IWC) | | MARCINETY BY THE THE PROPERTY. | | | |
| Inlet PID | | | | | |
| Exhaust PID | | | | | |
| Inlet Temperature K/O Tank Liquid Level | | | | | |
| K/O Liquid Drained (gallons) | 7/ | | | | |
| (ganono) | 50 | | | | |
| | S | VE SYSTEM - QUARTERLY | SAMPLING | | |
| SAMPLE ID: | | SAMPLE TIME: | | | |
| OPERATING WELLS | Sample BI-Weekly (eve | ery other week) for TVPH (80 | 15), BTEX (8260), Fixed | d Gas (CO2 AND O | 2) |
| | | | | | |
| Change in Well Operation: | | | | | |
| | | | | | |
| WELLHEAD MEASUREMENTS WELL ID | VACUUM (IHG) | PID HEADSPACE (PPM) | FLOW (OFM) | | |
| SVE01 | VACCONI (IIIC) | FID FILADSPACE (FFINI) | FLOW (CFM) | OXYGEN | CARBON DIOXIDE |
| SVE02 | | | | | |
| SVE03 | | | | West Assertable | |
| COMMENTS/OTHER MAINTENA | ANCE: | | | | |
| System will | not rest | ert, Issue | is likely | with a | control |
| System will panel/VFD. | IRE TO | ech has been | a dispatch. | ed. | |



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS

San Juan 32-9 #41A San Juan County, New Mexico Hilcorp Energy Company

Photograph 1

Runtime meter taken on December 28, 2023 at 12:26 PM Hours = 1,916.1



Photograph 2

Runtime meter taken on March 19, 2024 at 12:49 PM Hours = 3,857.0





APPENDIX C

Laboratory Analytical Reports



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 17, 2024

Mitch Killough
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: San Juan 32 9 41 A OrderNo.: 2312F15

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 12/29/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2312F15

Date Reported: 1/17/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: San Juan 32-9#41A Influent
Project: San Juan 32 9 41 A
Collection Date: 12/28/2023 12:15:00 PM

Lab ID: 2312F15-001 **Matrix:** AIR **Received Date:** 12/29/2023 7:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|--------|------|-------|----|---------------------|
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | 1400 | 25 | | μg/L | 5 | 1/3/2024 3:04:32 PM |
| Surr: BFB | 1000 | 15-412 | S | %Rec | 5 | 1/3/2024 3:04:32 PM |
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Toluene | 2.7 | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Ethylbenzene | 0.59 | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,2,4-Trimethylbenzene | 3.7 | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,3,5-Trimethylbenzene | 5.0 | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Naphthalene | ND | 1.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1-Methylnaphthalene | ND | 2.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 2-Methylnaphthalene | ND | 2.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Acetone | ND | 5.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Bromobenzene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Bromodichloromethane | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Bromoform | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Bromomethane | ND | 1.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 2-Butanone | ND | 5.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Carbon disulfide | ND | 80 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Carbon tetrachloride | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Chlorobenzene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Chloroethane | ND | 1.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Chloroform | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Chloromethane | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 2-Chlorotoluene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 4-Chlorotoluene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| cis-1,2-DCE | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Dibromochloromethane | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Dibromomethane | ND | 1.0 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Dichlorodifluoromethane | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,1-Dichloroethane | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,1-Dichloroethene | ND | 0.50 | | μg/L | 5 | 1/8/2024 3:27:00 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 1 of 2

Analytical Report

Lab Order 2312F15

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/17/2024

CLIENT: HILCORP ENERGY
Client Sample ID: San Juan 32-9#41A Influent
Project: San Juan 32 9 41 A
Collection Date: 12/28/2023 12:15:00 PM

Lab ID: 2312F15-001 **Matrix:** AIR **Received Date:** 12/29/2023 7:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-----------------------------|--------|--------|----------|----|---------------------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst: CCM |
| 1,2-Dichloropropane | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,3-Dichloropropane | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 2,2-Dichloropropane | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,1-Dichloropropene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Hexachlorobutadiene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 2-Hexanone | ND | 5.0 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Isopropylbenzene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 4-Isopropyltoluene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 4-Methyl-2-pentanone | ND | 5.0 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Methylene chloride | ND | 1.5 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| n-Butylbenzene | ND | 1.5 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| n-Propylbenzene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| sec-Butylbenzene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Styrene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| tert-Butylbenzene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Tetrachloroethene (PCE) | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| trans-1,2-DCE | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| trans-1,3-Dichloropropene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Trichloroethene (TCE) | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Trichlorofluoromethane | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| 1,2,3-Trichloropropane | ND | 1.0 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Vinyl chloride | ND | 0.50 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Xylenes, Total | 23 | 0.75 | μg/L | 5 | 1/8/2024 3:27:00 PM |
| Surr: Dibromofluoromethane | 109 | 70-130 | %Rec | 5 | 1/8/2024 3:27:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | %Rec | 5 | 1/8/2024 3:27:00 PM |
| Surr: Toluene-d8 | 120 | 70-130 | %Rec | 5 | 1/8/2024 3:27:00 PM |
| Surr: 4-Bromofluorobenzene | 127 | 70-130 | %Rec | 5 | 1/8/2024 3:27:00 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 2 of 2

ANALYTICAL SUMMARY REPORT

January 16, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order:

B24010207

Quote ID: B15626

Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 1/3/2024 for analysis.

| Lab ID | Client Sample ID | Collect Date R | Receive Date | Matri x | Test |
|---------------|---|----------------|--------------|---------|---|
| B24010207-001 | 2312F15-001B, San Juan 32-9#41A Influent | 12/28/23 12:15 | 01/03/24 | Air | Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60 |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental **Report Date: 01/16/24** Project: Not Indicated Collection Date: 12/28/23 12:15 Lab ID: B24010207-001 DateReceived: 01/03/24

Client Sample ID: 2312F15-001B, San Juan 32-9#41A Influent Matrix: Air

| Analyses | Result Units | Qualifiers RL | MCL/ QCL Method | Analysis Date / By |
|---|--------------|---------------|--------------------|----------------------|
| GAS CHROMATOGRAPHY ANALYSIS | REPORT | | | |
| Oxygen | 21.56 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| Nitrogen | 78.25 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| Carbon Dioxide | 0.19 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| Hydrogen Sulfide | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| Methane | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| Ethane | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| Propane | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| sobutane | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| -Butane | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| sopentane | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| -Pentane | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| lexanes plus | <0.01 Mol % | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| ropane | < 0.001 gpm | 0.001 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| sobutane | < 0.001 gpm | 0.001 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| -Butane | < 0.001 gpm | 0.001 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| sopentane | < 0.001 gpm | 0.001 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| -Pentane | < 0.001 gpm | 0.001 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| lexanes plus | < 0.001 gpm | 0.001 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| SPM Total | < 0.001 gpm | 0.001 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| SPM Pentanes plus | < 0.001 gpm | 0.001 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| ALCULATED PROPERTIES | | | | |
| Gross BTU per cu ft @ Std Cond. (HHV) | ND | 1 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| let BTU per cu ft @ std cond. (LHV) | ND | 1 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| Pseudo-critical Pressure, psia | 545 | 1 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| seudo-critical Temperature, deg R | 239 | 1 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| Specific Gravity @ 60/60F | 0.998 | 0.001 | D3588-81 | 01/09/23 11:36 / jrj |
| ir, % | 98.50 | 0.01 | GPA 2261-95 | 01/09/23 11:36 / jrj |
| - The analysis was not corrected for air. | | | | |
| COMMENTS | | | | |

OMMENTS

01/09/23 11:36 / jrj

RL - Analyte Reporting Limit Report MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

⁻ BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

⁻ GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

⁻ To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825 - Standard conditions: 60 F & 14.73 psi on a dry basis.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental Work Order: B24010207 Report Date: 01/16/24

| | | | | | | | | оро. | | | |
|-----------|-------------------|--------|-------------|--------------|------|------|-----------|--------------|-----|----------|-----------|
| Analyte | | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
| Method: | GPA 2261-95 | | | | | | | | | Batch: | : R41489 |
| Lab ID: | LCS010924 | 11 Lab | oratory Cor | ntrol Sample | | | Run: GCNG | SA-B_240109A | | 01/09 | /24 03:25 |
| Oxygen | | | 0.64 | Mol % | 0.01 | 128 | 70 | 130 | | | |
| Nitrogen | | | 6.34 | Mol % | 0.01 | 106 | 70 | 130 | | | |
| Carbon D | ioxide | | 0.99 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Methane | | | 74.4 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Ethane | | | 6.02 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Propane | | | 5.00 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Isobutane | e | | 1.77 | Mol % | 0.01 | 88 | 70 | 130 | | | |
| n-Butane | | | 1.99 | Mol % | 0.01 | 99 | 70 | 130 | | | |
| Isopentar | ne | | 1.00 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| n-Pentan | е | | 1.00 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Hexanes | plus | | 0.81 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Lab ID: | B24010204-001ADUP | 12 San | nple Duplic | ate | | | Run: GCNG | SA-B_240109A | | 01/09 | /24 10:44 |
| Oxygen | | | 21.7 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Nitrogen | | | 78.2 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Carbon D | Dioxide | | 0.05 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Hydroger | n Sulfide | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Methane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Ethane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Propane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isobutane | Э | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Butane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isopentar | ne | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Pentan | е | | <0.01 | IVIOI 70 | 0.01 | | | | | 20 | |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist

Hall Environmental

B24010207

| Login completed by: | Yvonna E. Smith | | Date | Received: 1/3/2024 | | | | | |
|--|---------------------------------|------------------|----------------|------------------------|--|--|--|--|--|
| Reviewed by: | dharris | Received by: cmj | | | | | | | |
| Reviewed Date: | eviewed Date: 1/4/2024 | | | rrier name: FedEx | | | | | |
| Shipping container/cooler in | good condition? | Yes 🔽 | No 🗌 | Not Present | | | | | |
| Custody seals intact on all sh | Yes √ | No 🗌 | Not Present | | | | | | |
| Custody seals intact on all sa | Yes | No 🗌 | Not Present ✓ | | | | | | |
| Chain of custody present? | Yes ✓ | No 🗌 | | | | | | | |
| Chain of custody signed whe | Yes √ | No 🗌 | | | | | | | |
| Chain of custody agrees with | Yes √ | No 🗌 | | | | | | | |
| Samples in proper container/ | Yes √ | No 🗌 | | | | | | | |
| Sample containers intact? | Yes √ | No 🗌 | | | | | | | |
| Sufficient sample volume for | Yes ✓ | No 🗌 | | | | | | | |
| All samples received within h (Exclude analyses that are or such as pH, DO, Res Cl, Su | Yes √ | No 🗌 | | | | | | | |
| Temp Blank received in all sl | nipping container(s)/cooler(s)? | Yes | No 🗹 | Not Applicable | | | | | |
| Container/Temp Blank tempe | erature: | 11.8°C No Ice | | | | | | | |
| Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4"). | | Yes | No 🗌 | No VOA vials submitted | | | | | |
| Water - pH acceptable upon | Yes [] | No 🗌 | Not Applicable | | | | | | |
| | | | | | | | | | |

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

| | | | | Albuquerque, NM 87109 TEL: 503-345-3975 FAX: 505-345-4107 Website: www.hallenvironmenal.com |
|---|-----------------------|------------------------|---|--|
| SUB CONTRATOR Energy Labs - Billings COMPANY: Ene | Energy Laboratories | PHONE | (406) 869-6253 FAX | (406) 252-6069 |
| ADDRESS: 1120 South 27th Street | | ACCOUNT# | EMAIL, | |
| CITY, STATE, ZIP. Billings, MT 59107 | | | | |
| ITEM SAMPLE CLIENT SAMPLE ID | BOTTLE TYPE MATRIX | COLLECTION | #CONTAINERS | ANALYTICAL COMMENTS |
| 1 2312F15-001B San Juan 32-9#41A Influent | TEDLAR Air | 12/28/2023 12:15:00 PM | 12/28/2023 12:15:00 PM 1 Natuaral Gas Analysis. C02+02. | B24010207 |
| | | | W 120 122 | |

| Relinquished By: | Date 12/29/2023 | Time 9:51 AM | Received By: | Date: | Тіте: | ORT TRANSMITTAL DESIRED: |
|------------------|-----------------|--------------|----------------|--------------|-------|--------------------------|
| . 6 | Date | Time | Received By: | Date | Time: | |
| 2 | Plote | Time | . 1 | Date | Time | FOR LAB USE ONLY |
| | - | | 111 | 1787 | 090 | Ų |
| TAT: | Standard | RUSH | Next BD 2nd BD | 3rd BD | | |
| | Date: | | BD Copys | Date: PP\$24 | | EMAIL to Cool 7 |



Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 5/1/2024 2:12:13 PM

| Client Name: | HILCORP I | ENERGY | Work | Order Num | ber: 231 | 2F15 | | | RcptNo: | 1 |
|---|-----------------|-----------------|------------------|-------------|------------|-------------|-------------|----------|-------------------|-------------------|
| Received By: | Tracy Cas | arrubias | 12/29/2 | 023 7:00:00 |) AM | | | | | |
| Completed By: | Tracy Cas | arrubias | 12/29/2 | 023 9:46:37 | 'AM | | | | | |
| Reviewed By: | Ju 12 | 29/23 | | | | | | | | |
| Chain of Cust | <u>ody</u> | | | | | | | | | |
| 1. Is Chain of Cu | stody comp | lete? | | | Yes | | No | V | Not Present | |
| 2. How was the s | ample deliv | ered? | | | Cou | <u>rier</u> | | | | |
| <u>Log In</u> | | | | | | | | | | |
| 3. Was an attemp | ot made to o | ool the sample | es? | | Yes | | No | V | NA 🗌 | |
| 4. Were all sample | es received | at a tempera | ture of >0° C | to 6.0°C | Yes | | : No | | NA 🗹 | |
| 5. Sample(s) in p | roper contai | iner(s)? | | | Yes | V | No | | | |
| 6. Sufficient samp | ole volume f | or indicated te | st(s)? | | Yes | V | No | | | |
| 7. Are samples (e | xcept VOA | and ONG) pro | perly preserve | ed? | Yes | ~ | No | | | |
| 8. Was preservati | ve added to | bottles? | | | Yes | | No | V | NA \square | |
| 9. Received at lea | ıst 1 vial wit | h headspace | <1/4" for AQ V | OA? | Yes | | No | | NA 🗹 | |
| 10. Were any sam | ple containe | ers received b | roken? | | Yes | | No | V | # of preserved | |
| 4.4 - | | | | | | | | | bottles checked | |
| Does paperwor Note discrepar | | | | | Yes | V | No | | for pH: (<2 or | >12 unless noted) |
| 12. Are matrices co | | = - | | | Yes | V | No | | Adjusted? | |
| 13. Is it clear what | • | | • | | Yes | V | No | | | |
| 14. Were all holdin | g times able | to be met? | | | Yes | v | No | | Checked by: | \$ 12-29-2 |
| (If no, notify cu | | | | | | | | | 0 | |
| Special Handlii | (V | | | | | | | | [4] | |
| 15. Was client not | ified of all di | screpancies v | vith this order? | | Yes | | No | | NA 🗸 | 1 |
| Person N | Notified: | | | Date | | | | | | |
| By Whor | | | | Via: | eM | ail 🗌 | Phone _ | Fax | ☐ In Person | |
| Regardir | | | | | | | | | | |
| - | | Mailing addre | ss.phone num | ber and Em | nail/Fax a | re miss | singo on CC | C- TN | MC 12/29/23 | |
| 16. Additional rem | narks: | | | | | | | | | |
| 17. Cooler Inform | | | | | | | | | ı | |
| Cooler No | Temp °C N/A | Condition | Seal Intact | Seal No | Seal D | ate | Signed | Ву | | |
| 1 | INIM | Good | Yes | | | | | | | |

| | | | stody Record | Turn-Around | lime: | | | HA | | | LL | E | VV | IR | 201 | NM | IEI | T | AL | | |
|--|--------------------------------|--|-----------------------------|----------------------|--------------|-----------------------------|---|----------------------------|---------------------------|----------------------|--------------------|-------------------|-------------------------------------|--------------|-----------------|----------|-------------------|--------|------|----------|-----------------|
| Client: | - Ilcore | o: Mito | th Killough | ☑ Standard | □ Rush | | | | | | | | | | | | | | ТО | | |
| 11 2/20 | | | | Project Name | | | | | www.hallenvironmental.com | | | | | | | | | | | | |
| Mailing | Mailing Address: | | | San Juan 32-9 #41A | | | 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | | | | | | | | |
| | | | | Project #: | | | Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | | | | | | | | |
| Phone # | * : | | | | | | | | | | , | Analy | sis | Requ | uest | | | | | | |
| email or | r Fax#: | | | Project Mana | ger: Sturr- | + Hyde | | 5 | ĝ | | | | SO4 | | | ent) | , | | | | |
| QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation) | | | ☐ Level 4 (Full Validation) | shyo | le@ensol | t Hyde um.com | | (802) s | JW / O | PCB's | 1.1) 8270SIMS | | NO ₂ , PO ₄ , | 1 | | nt/Abs | 0 | | | | |
| Accredi | Accreditation: Az Compliance | | Sampler: | Zach M | 407 | | TMB | N DR | /8082 | 04.1) | | NO ₂ , | | ₹ | Prese | 9 | | | | | |
| □ NEL | AC (Type) | ☐ Other | | On Ice: Ves Vo Mortt | | | 띪 | (왕) | des | d 50 | tals | S _C | <u></u> =>2 | 9 | E E | 9 | | | | | |
| | (Type) | | | | | + Ø + + 1 12/14/2 | , (°C) | <u>E</u> | 15D(| stic | etho | ₹ | ير ا | 8 | emi | 톑 | 55 | , | | | |
| | | | Cample Name | Container | Preservative | 1 1 2 1 1 |). | BTEX / MTBE / TMB's (8021) | (PH:8015D(GRO) DRO / MRO) | 8081 Pesticides/8082 | EDB (Method 504.1) | RCRA 8 Metals | Cl, F, Br, NO3, | 8260 (VOA) ₩ | 8270 (Semi-VOA) | Fotal Co | Final gos CO2, O2 | | | | |
| Date | Time | | Sample Name | | Туре | The second of the second of | | Н. | X | <u> </u> | | - | <u> </u> | X | | | \times | _ | _ | \dashv | $\dashv \dashv$ |
| 12/28 | 1215 | ల్గన | SanJuan 32-9441A InPluent | 2xtellar | _ | 100 | | - | | | _ | + | - | (/ | \vdash | | $^{\wedge}$ | - | - | r (To | + |
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| | | | | | 5 11 17 I | | 100 | П | | | | | | | 11 | | | 5 | | | |
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| | | <u> </u> | | | | Reporter 1 | | | | | 1) | 4 | | | | | | | | | |
| | | | | | | | 1.6 | 1. | | | | | | | 1115 | | | | 111 | | |
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| Date: | Time: 1515 | | wh Man | Received by: | | 1-7 | 1575 | 1 | nark | s: wy | rers | 2 | 9 ò0 | ارم | \ .a | :~~ | <u> </u> | | | | |
| Date: | Time: | Relinquis | M War | Received by: | Via: Caune | Date Tir 12/29/23 | | | | | | h . | | | | | | | | | |



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 08, 2024

Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

FAX:

RE: San Juan 32 9 41A OrderNo.: 2401850

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 1/20/2024 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2401850

Date Reported: 2/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Influent 1-19-24

Lab ID: 2401850-001 **Matrix:** AIR **Received Date:** 1/20/2024 8:05:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|----------------------------------|--------|--------|----------|----|----------------------|
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | 560 | 250 | μg/L | 50 | 1/26/2024 2:00:00 PM |
| Surr: BFB | 129 | 15-412 | %Rec | 50 | 1/26/2024 2:00:00 PM |
| EPA METHOD 8260B: VOLATILES | | | | | Analyst: CCM |
| Benzene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Toluene | 1.3 | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Ethylbenzene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,2,4-Trimethylbenzene | 0.95 | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,3,5-Trimethylbenzene | 1.6 | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Naphthalene | ND | 1.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1-Methylnaphthalene | ND | 2.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 2-Methylnaphthalene | ND | 2.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Acetone | ND | 5.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Bromobenzene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Bromodichloromethane | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Bromoform | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Bromomethane | ND | 1.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 2-Butanone | ND | 5.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Carbon disulfide | ND | 5.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Carbon tetrachloride | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Chlorobenzene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Chloroethane | ND | 1.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Chloroform | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Chloromethane | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 2-Chlorotoluene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 4-Chlorotoluene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| cis-1,2-DCE | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Dibromochloromethane | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Dibromomethane | ND | 1.0 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| Dichlorodifluoromethane | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,1-Dichloroethane | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |
| 1,1-Dichloroethene | ND | 0.50 | μg/L | 5 | 2/1/2024 12:50:00 PM |

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

Qualifiers:

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

Analytical Report Lab Order 2401850

Date Reported: 2/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Influent 1-19-24

Project: San Juan 32 9 41A Collection Date: 1/19/2024 12:20:00 PM Lab ID: 2401850-001 Matrix: AIR Received Date: 1/20/2024 8:05:00 AM

Result **RL Qual Units** DF Analyses **Date Analyzed EPA METHOD 8260B: VOLATILES** Analyst: CCM ND 0.50 5 2/1/2024 12:50:00 PM 1,2-Dichloropropane μg/L 0.50 5 1,3-Dichloropropane ND µg/L 2/1/2024 12:50:00 PM 5 ND 0.50 2,2-Dichloropropane μg/L 2/1/2024 12:50:00 PM 1.1-Dichloropropene ND 0.50 µg/L 5 2/1/2024 12:50:00 PM Hexachlorobutadiene ND 0.50 μg/L 5 2/1/2024 12:50:00 PM 2-Hexanone ND 5.0 5 2/1/2024 12:50:00 PM μg/L 5 Isopropylbenzene ND 0.50 μg/L 2/1/2024 12:50:00 PM 4-Isopropyltoluene ND 0.50 5 2/1/2024 12:50:00 PM µg/L 4-Methyl-2-pentanone ND 5.0 μg/L 5 2/1/2024 12:50:00 PM Methylene chloride ND 5 2/1/2024 12:50:00 PM 1.5 μg/L n-Butylbenzene 5 2/1/2024 12:50:00 PM ND 1.5 μg/L 5 n-Propylbenzene ND 0.50 2/1/2024 12:50:00 PM µg/L 5 sec-Butylbenzene ND 0.50 μg/L 2/1/2024 12:50:00 PM Styrene ND 0.50 μg/L 5 2/1/2024 12:50:00 PM tert-Butylbenzene ND 0.50 μg/L 5 2/1/2024 12:50:00 PM 1,1,1,2-Tetrachloroethane ND 0.50 µg/L 5 2/1/2024 12:50:00 PM 1,1,2,2-Tetrachloroethane ND 0.50 μg/L 5 2/1/2024 12:50:00 PM Tetrachloroethene (PCE) ND 0.50 5 2/1/2024 12:50:00 PM μg/L ND 5 trans-1,2-DCE 0.50 μg/L 2/1/2024 12:50:00 PM trans-1,3-Dichloropropene ND 0.50 5 2/1/2024 12:50:00 PM μg/L ND 0.50 5 1,2,3-Trichlorobenzene μg/L 2/1/2024 12:50:00 PM 1,2,4-Trichlorobenzene ND 0.50 μg/L 5 2/1/2024 12:50:00 PM ND 5 1,1,1-Trichloroethane 0.50 2/1/2024 12:50:00 PM μg/L 5 1,1,2-Trichloroethane ND 0.50 μg/L 2/1/2024 12:50:00 PM ND 5 Trichloroethene (TCE) 0.50 μg/L 2/1/2024 12:50:00 PM Trichlorofluoromethane ND 0.50 μg/L 5 2/1/2024 12:50:00 PM 1,2,3-Trichloropropane ND 1.0 μg/L 5 2/1/2024 12:50:00 PM 2/1/2024 12:50:00 PM Vinyl chloride ND 0.50 μg/L 5 Xylenes, Total 8.1 0.75 μg/L 5 2/1/2024 12:50:00 PM Surr: Dibromofluoromethane 96.9 70-130 %Rec 5 2/1/2024 12:50:00 PM Surr: 1,2-Dichloroethane-d4 98.8 70-130 %Rec 5 2/1/2024 12:50:00 PM 5 Surr: Toluene-d8 %Rec 117 70-130 2/1/2024 12:50:00 PM Surr: 4-Bromofluorobenzene 124 %Rec 5 2/1/2024 12:50:00 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

70-130

ANALYTICAL SUMMARY REPORT

January 30, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order:

B24011070

Quote ID: B15626

Project Name:

Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 1/23/2024 for analysis.

| Lab ID | Client Sample ID | Collect Date R | deceive Date | Matri x | Test |
|---------------|-----------------------------------|----------------|--------------|---------|---|
| B24011070-001 | 2401850-001B, Influent 1-19-24 | 01/19/24 12:20 | 01/23/24 | Air | Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60 |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

Client Sample ID: 2401850-001B, Influent 1-19-24

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: Not Indicated
Lab ID: B24011070-001

Report Date: 01/30/24
Collection Date: 01/19/24 12:20
DateReceived: 01/23/24

Matrix: Air

| | | | | | MCL/ | | |
|---|---------|-------|------------|-------|------|-------------|----------------------|
| Analyses | Result | Units | Qualifiers | RL | QCL | Method | Analysis Date / By |
| GAS CHROMATOGRAPHY ANALYSIS RE | PORT | | | | | | |
| Oxygen | 21.78 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Nitrogen | 78.04 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Carbon Dioxide | 0.17 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Hydrogen Sulfide | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Methane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Ethane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Propane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Isobutane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| n-Butane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Isopentane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| n-Pentane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Hexanes plus | 0.01 | Mol % | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Propane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Isobutane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| n-Butane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Isopentane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| n-Pentane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Hexanes plus | 0.004 | gpm | | 0.001 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| GPM Total | 0.004 | gpm | | 0.001 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| GPM Pentanes plus | 0.004 | gpm | | 0.001 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| CALCULATED PROPERTIES | | | | | | | |
| Gross BTU per cu ft @ Std Cond. (HHV) | ND | | | 1 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Net BTU per cu ft @ std cond. (LHV) | ND | | | 1 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Pseudo-critical Pressure, psia | 546 | | | 1 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Pseudo-critical Temperature, deg R | 239 | | | 1 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| Specific Gravity @ 60/60F | 0.999 | | | 0.001 | | D3588-81 | 01/26/24 12:26 / jrj |
| Air, % | 99.53 | | | 0.01 | | GPA 2261-95 | 01/26/24 12:26 / jrj |
| - The analysis was not corrected for air. | | | | | | | |
| COMMENTS | | | | | | | |

⁻ BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

Report RL - Analyte Reporting Limit MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

01/26/24 12:26 / jrj

⁻ GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

⁻ To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

⁻ Standard conditions: 60 F & 14.73 psi on a dry basis.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental Work Order: B24011070 Report Date: 01/30/24

| | · · · · · · · · · · · · · · · · · · · | | | | 5.4611 | | | opo. | | 0.,00,21 | |
|-----------|---------------------------------------|---------|-------------|--------------|--------|------|-----------|-------------|-----|----------|-----------|
| Analyte | | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
| Method: | GPA 2261-95 | | | | | | | | | Batch: | : R415720 |
| Lab ID: | LCS012624 | 11 Labo | oratory Cor | ntrol Sample | | | Run: GCNG | A-B_240126A | | 01/26 | /24 02:28 |
| Oxygen | | | 0.64 | Mol % | 0.01 | 128 | 70 | 130 | | | |
| Nitrogen | | | 6.37 | Mol % | 0.01 | 106 | 70 | 130 | | | |
| Carbon D | Dioxide | | 0.99 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Methane | | | 75.2 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Ethane | | | 6.08 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Propane | | | 4.48 | Mol % | 0.01 | 91 | 70 | 130 | | | |
| Isobutane | e | | 1.60 | Mol % | 0.01 | 80 | 70 | 130 | | | |
| n-Butane | | | 2.03 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Isopentar | ne | | 0.97 | Mol % | 0.01 | 97 | 70 | 130 | | | |
| n-Pentan | е | | 0.85 | Mol % | 0.01 | 85 | 70 | 130 | | | |
| Hexanes | plus | | 0.81 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Lab ID: | B24011070-001ADUP | 12 Sam | ple Duplic | ate | | | Run: GCNG | A-B_240126A | | 01/26 | /24 01:16 |
| Oxygen | | | 21.8 | Mol % | 0.01 | | | | 0.1 | 20 | |
| Nitrogen | | | 78.0 | Mol % | 0.01 | | | | 0 | 20 | |
| Carbon D | Dioxide | | 0.17 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Hydroger | n Sulfide | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Methane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Ethane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Propane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isobutane | е | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Butane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isopentar | ne | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| | | | | NA 10/ | 0.04 | | | | | 20 | |
| n-Pentan | e | | <0.01 | Mol % | 0.01 | | | | | 20 | |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist

Hall Environmental

B24011070

| Login completed by: | Addison A. Gilbert | | Date F | Received: 1/23/2024 |
|---|---------------------------------|---------------|--------|------------------------|
| Reviewed by: | ysmith | | Rec | eived by: CMJ |
| Reviewed Date: | 1/23/2024 | | Carr | ier name: FedEx |
| Shipping container/cooler in | good condition? | Yes ✓ | No 🗌 | Not Present |
| Custody seals intact on all sh | nipping container(s)/cooler(s)? | Yes √ | No 🗌 | Not Present |
| Custody seals intact on all sa | ample bottles? | Yes | No 🗌 | Not Present ✓ |
| Chain of custody present? | | Yes √ | No 🗌 | |
| Chain of custody signed whe | n relinquished and received? | Yes 🗹 | No 🗌 | |
| Chain of custody agrees with | sample labels? | Yes 🗸 | No 🗌 | |
| Samples in proper container/ | bottle? | Yes 🔽 | No 🗌 | |
| Sample containers intact? | | Yes 🔽 | No 🗌 | |
| Sufficient sample volume for | indicated test? | Yes √ | No 🗌 | |
| All samples received within h (Exclude analyses that are co such as pH, DO, Res Cl, Sul | onsidered field parameters | Yes 🔽 | No 🗌 | |
| Temp Blank received in all sh | nipping container(s)/cooler(s)? | Yes | No 🔽 | Not Applicable |
| Container/Temp Blank tempe | erature: | 11.2°C No Ice | | |
| Containers requiring zero heabubble that is <6mm (1/4"). | adspace have no headspace or | Yes | No 🗌 | No VOA vials submitted |
| Water - pH acceptable upon | receipt? | Yes | No 🗌 | Not Applicable 🗹 |
| | | | | |

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

💸 eurofins Environment Testing

CHAIN OF CUSTODY RECORD PAGE: 1

OF:

Eurofins Environment Testing South Central, LLC

| The state of the s | | 1 | | 0 |
|--|-------|----------------|-------|------------------------------------|
| | | | | 4901 Hawkins NE |
| | | | | Albuquerque, NM 87109 |
| | | | | TEL: 505-345-3975 |
| | | | | FAX: 505-345-4107 |
| | | | | Website: www.hallenvironmental.com |
| | PHONE | | EAX. | |
| atories | | (406) 869-6253 | TOTAL | (406) 252-6069 |

| ADDRESS 1120 South 27th Street CITY, STATE, ZIP. Billings, MT 59107 BOTTLE BOTTLE COLLECTION TYPE ACCOUNT# ACCOUNT# | ACCOUNT#: EMAIL. |
|--|------------------|
| BOTTLE COLLECTION TYPE MATRIX DATE | # (|
| SAMPLE CLIENT SAMPLE ID TYPE MATRIX DATE | # 6 |
| | MATRIX |
| 1 2401850-001B Influent 1-19-24 TEDLAR Air 1/19/2024 12:20:00 PM 1 Natual Gas Analysis C | |

020110178

| Relinquished By: | 7 | Date: | Time: 0.23 AM | Received By- | | Date: | Time. | REPORT TRANSMITTAL DESIRED: |
|------------------|--------|------------|---------------|-------------------|------------------------|----------|------------|--|
|) |) | | | | | 4 | 4 | ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE |
| Kempushed by | | Marc | ime | neceived by | | Date | - Tillic | SOBTABLISE ONLY |
| Relinquished By: | | Date: | Time: | Received With Con | 12 Crestal dies 123/24 | Date 124 | Time; O950 | Town of complee |
| TAT: | Standa | Standard K | RUSH | Next BD | 2nd BD | 3rd BD | 0 | |
| | | | | | | | | Comments |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2401850** *08-Feb-24*

Qual

Client: HILCORP ENERGY
Project: San Juan 32 9 41A

Sample ID: 2401850-001adup SampType: DUP TestCode: EPA Method 8015D: Gasoline Range

Client ID: Influent 1-19-24 Batch ID: G102705 RunNo: 102705

Prep Date: Analysis Date: 1/26/2024 SeqNo: 3795056 Units: μ g/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 550 250 0.903 20 Surr: BFB 120000 100000 120 15 412 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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

Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

Albuquerque, NM 87109

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

Sample Log-In Check List

Released to Imaging: 5/1/2024 2:12:13 PM

| Client Name: HIL | | | | | | |
|---|---|----------------------|-------------------|------------|--------------------------------|---------------------|
| Chent Name. Til | CORP ENERGY | Work Order Numbe | r: 2401850 | | RcptNo | : 1 |
| Received By: CI | neyenne Cason | 1/20/2024 8:05:00 AM | Λ | Chenl | | |
| Completed By: CI | neyenne Cason | 1/20/2024 9:22:06 AM | /i | Cheml | | |
| Reviewed By: 7 | -122/24 | | | | | |
| Chain of Custod | <u>'Y</u> | | | | | |
| 1. Is Chain of Custon | dy complete? | | Yes 🗹 | No 📙 | Not Present | |
| 2. How was the sam | ple delivered? | | Courier | | | |
| Log In | nade to cool the samples | 2 | Yes 🗌 | No 🗌 | NA 🗹 | |
| O. Was all attempt in | lade to cool the samples | : | 163 | 110 | | |
| 4. Were all samples | received at a temperatur | e of >0° C to 6.0°C | Yes | No 🗌 | NA 🗹 | |
| 5. Sample(s) in prop | er container(s)? | | Yes 🗹 | No 🗌 | | |
| 6. Sufficient sample | volume for indicated test | s)? | Yes 🗹 | No 🗌 | | |
| 7. Are samples (exce | ept VOA and ONG) prope | rly 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 brok | en? | Yes | No 🗸 | 0.6 | |
| | | | 1000 | | # of preserved bottles checked | |
| 11. Does paperwork m (Note discrepancie | natch bottle labels? es on chain of custody) | | Yes 🗸 | No 📙 | / | r >12 unless noted) |
| 12. Are matrices corre | ctly identified on Chain o | f Custody? | Yes 🗸 | No 🗌 | Adjusted? | |
| 13. Is it clear what and | alyses were requested? | | Yes 🗸 | No 🗌 | | 2/22/1 Err |
| 14. Were all holding til (If no, notify custor | mes able to be met? mer for authorization.) | | Yes 🗸 | No 🗌 | Checked by: | 2 1/20 |
| Special Handling | (if applicable) | | | | | |
| 15. Was client notified | d of all discrepancies with | this order? | Yes 🗌 | No 🗌 | NA 🗹 | |
| Person Noti | ified: | Date: | | | | |
| By Whom: | | Via: | eMail | Phone Fax | In Person | |
| Regarding: | | | | | | |
| Client Instru | ictions: | | | | | |
| 16. Additional remark | ks: | | | | | |
| 17. Cooler Informat | | | | | | |
| Cooler No 7 | Temp ⁰C Condition | Seal Intact Seal No | Seal Date | Signed By | | |
| 1 N/ | A Good Y | es NA | | | | |

| C | hain- | of-Cu | stody Re | cord | Turn-Around | Time: | | HALL ENVIROR | | | NMENTAL | | | | | | | | | | | |
|---------|--|----------------|---|---------------------------------------|---------------------|-----------------|------------------------------------|--------------|------------------------|----------------------|--------------------|--------------------------|---------------|--|------------------------------------|-----------------|---------------------------------|-------|-----|----------|---------------|---------|
| Client: | 1-1:1 | COL | P | | Standard | □ Rush | | | | | | | | | | | | | | TC | | |
| | | - | | | Project Name |): | A | | | | ٧ | vww. | .halle | envir | onn | nent | al.co | m | | | | |
| Mailing | Address | • | 10 to 2000 | | San Ju | an 32 | -9 #41 A | | 490 |)1 Ha | awkir | | | | | | | | 109 | | | |
| | ************************************** | | | · · · · · · · · · · · · · · · · · · · | Project #: | | | | | | 5-34 | | | | | | | 4107 | | | | |
| Phone | # : | | | | | | | | | Ī, | | | | | sis I | Requ | uest | | | | | |
| email o | r Fax#: | | | | Project Mana | ger: | | Ξ | (Q) | | | | | SO4 | | | er (| | | 4 | | 11 |
| | Package: | | | | Staga | of My | da | TMB's (8021) | TPH:8015D(GRO/DRO/MRO) | PCB's | | PAHs by 8310 or 8270SIMS | | 04, | 5 | | Total Coliform (Present/Absent) | | | | | |
| □ Star | _ | | ☐ Level 4 (Ful | l Validation) | | <u> </u> | | /B's | N N | | | ŽΙ | | 75,4 | | | sent | 4. | | | | |
| Accred | | ☐ Az Co☐ Other | mpliance | | Sampler: On Ice: | Yes | NO NO | _ | 30/1 | 8081 Pesticides/8082 | EDB (Method 504.1) | or 82 | s | CI, F, Br, NO ₃ , NO ₂ , PO ₄ , | 3 | € | (Pre | bas | | | | |
| | (Type) | | | | # of Coolers: | 1 stolen | | | Ø | -ide | bo | 310 | etal | 8 | | <u>-</u> | E | 0 | | | | |
| | | | | | Cooler Temp | (including CF): | <u>A</u> (°C) | ∑ | 0150 | Pesti | Meth | by 8 | 8 ⊠ | Ŗ, | Ø. | Sem | Colife | 8 | | | | |
| | | | | | Container | Preservative | HEAL No. | BTEX / MTBE | PH:8 | 081 F | DB (| AHs | RCRA 8 Metals | щ. П | 8260 (VOA) Full | 8270 (Semi-VOA) | otal (| Lixed | | | | |
| Date | Time | Matrix | Sample Nar | | 4.4 | Туре | 2401850 | <u> </u> | | ŏ | Ш | <u>-</u> | <u>~</u> | 9 | $\stackrel{\boldsymbol{\circ}}{=}$ | 8 | 느 | | | - | + | _ |
| 1024 | 1220 | Ar | Influent | 1-19-24 | 2- Epdlor | NA | OCI | <u> </u> | | | | _ | _ | _ | | | | X | - | | - | + |
| | | | | | | | | | Ш | | _ | _ | | | _ | | | | | _ | _ | |
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| | | | | | | | | | | | | _ | | | | | 11111 | | | | | |
| Date: | Time: \$.07 | Relinquis | 1 A |) had | Received by: | Via: | Date Time 1/19/24/1500 Date Time | - | mark | 4 | 9 | he | HT BN I | rs en de | la | W | (| 2e | 45 | olo O | um | л |
| 1/19/2 | 111/ | | 111111111111111111111111111111111111111 | VIVE. | me | COUNT | 1/20/m 0503 | | | | - | * | | | | | | | | | | |

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 3/20/2024 4:56:46 PM

JOB DESCRIPTION

SJ 32 9 Unit 41A

JOB NUMBER

885-717-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Client: Hilcorp Energy
Laboratory Job ID: 885-717-1
Project/Site: SJ 32 9 Unit 41A

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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-717-1 Project/Site: SJ 32 9 Unit 41A

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Eurofins Albuquerque

Case Narrative

Client: Hilcorp Energy Job ID: 885-717-1
Project: SJ 32 9 Unit 41A

Job ID: 885-717-1 Eurofins Albuquerque

Job Narrative 885-717-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to
 demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
 method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 3/7/2024 7:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Client Sample ID: SVE-1 Lab Sample ID: 885-717-1 Date Collected: 03/05/24 13:15

Matrix: Air

Date Received: 03/07/24 07:15 Sample Container: Tedlar Bag 1L

| ı | Method: SW846 8015D - Nonhalog | enated Organics using | g GC/MS -Modifie | ed (Gasoline I | Range Organ | ics) |
|---|--------------------------------|-----------------------|------------------|----------------|-------------|------|
| П | Analyto | Pocult Qualifier | DI I | Init D | Dropared | Λn |

| Analyte | Result | Qualitier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Gasoline Range Organics [C6 - | 980 | | 100 | ug/L | | | 03/12/24 15:41 | 20 |

C10]

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | 03/12/24 15:41 | 20 |
| 4-Bromofluorobenzene (Surr) | 188 | S1+ | 70 - 130 | | 03/13/24 12:37 | 1 |

| Analyte | Result Qualifier | RL | Unit | D Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------|------|------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND - | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,1-Dichloroethane | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,1-Dichloroethene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,1-Dichloropropene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2,3-Trichlorobenzene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2,3-Trichloropropane | ND | 4.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2,4-Trichlorobenzene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | 4.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2-Dichloroethane (EDC) | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,2-Dichloropropane | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,3,5-Trimethylbenzene | 2.7 | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,3-Dichloropropane | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 1-Methylnaphthalene | ND | 8.0 | ug/L | | 03/12/24 15:41 | 20 |
| 2,2-Dichloropropane | ND | 4.0 | ug/L | | 03/12/24 15:41 | 20 |
| 2-Butanone | ND | 20 | ug/L | | 03/12/24 15:41 | 20 |
| 2-Chlorotoluene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 2-Hexanone | ND | 20 | ug/L | | 03/12/24 15:41 | 20 |
| 2-Methylnaphthalene | ND | 8.0 | ug/L | | 03/12/24 15:41 | 20 |
| 4-Chlorotoluene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 4-Isopropyltoluene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| 4-Methyl-2-pentanone | ND | 20 | ug/L | | 03/12/24 15:41 | 20 |
| Acetone | ND | 20 | ug/L | | 03/12/24 15:41 | 20 |
| Benzene | 0.49 | 0.10 | ug/L | | 03/13/24 12:37 | 1 |
| Bromobenzene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| Bromodichloromethane | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| Dibromochloromethane | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| Bromoform | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| Bromomethane | ND | 6.0 | ug/L | | 03/12/24 15:41 | 20 |
| Carbon disulfide | ND | 20 | ug/L | | 03/12/24 15:41 | 20 |
| Carbon tetrachloride | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| Chlorobenzene | ND | 2.0 | ug/L | | 03/12/24 15:41 | 20 |
| Chloroethane | ND | 4.0 | ug/L | | 03/12/24 15:41 | 20 |

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Job ID: 885-717-1

Client: Hilcorp Energy Project/Site: SJ 32 9 Unit 41A

Client Sample ID: SVE-1

Trichlorofluoromethane

Vinyl chloride

Xylenes, Total

Lab Sample ID: 885-717-1

03/12/24 15:41

03/12/24 15:41

03/12/24 15:41

Matrix: Air

Date Collected: 03/05/24 13:15
Date Received: 03/07/24 07:15
Sample Container: Tedlar Bag 1L

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------------|-----|------|---|----------|----------------|---------|
| Chloroform | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Chloromethane | ND | 6.0 | ug/L | | | 03/12/24 15:41 | 20 |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Dibromomethane | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Ethylbenzene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Hexachlorobutadiene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Isopropylbenzene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Methyl-tert-butyl Ether (MTBE) | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Methylene Chloride | ND | 6.0 | ug/L | | | 03/12/24 15:41 | 20 |
| n-Butylbenzene | ND | 6.0 | ug/L | | | 03/12/24 15:41 | 20 |
| N-Propylbenzene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Naphthalene | ND | 4.0 | ug/L | | | 03/12/24 15:41 | 20 |
| sec-Butylbenzene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Styrene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| tert-Butylbenzene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Tetrachloroethene (PCE) | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Toluene | 9.9 | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |
| Trichloroethene (TCE) | ND | 2.0 | ug/L | | | 03/12/24 15:41 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 70 - 130 | | 03/12/24 15:41 | 20 |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 70 - 130 | | 03/13/24 12:37 | 1 |
| Toluene-d8 (Surr) | 105 | | 70 - 130 | | 03/12/24 15:41 | 20 |
| Toluene-d8 (Surr) | 140 | S1+ | 70 - 130 | | 03/13/24 12:37 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | 03/12/24 15:41 | 20 |
| 4-Bromofluorobenzene (Surr) | 202 | S1+ | 70 - 130 | | 03/13/24 12:37 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 70 - 130 | | 03/12/24 15:41 | 20 |
| Dibromofluoromethane (Surr) | 97 | | 70 - 130 | | 03/13/24 12:37 | 1 |

2.0

2.0

3.0

ug/L

ug/L

ug/L

ND

ND

21

E

7

8

40

11

1:

20

20

20

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: 8015D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-1848/3

Matrix: Air

Analysis Batch: 1848

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 5.0 03/12/24 13:14 Gasoline Range Organics [C6 - C10] ND ug/L

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 95 70 - 130 03/12/24 13:14

Lab Sample ID: LCS 885-1848/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Air

Analysis Batch: 1848

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits

Gasoline Range Organics [C6 -500 478 ug/L 96

C10]

LCS LCS

Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 101 70 - 130

Lab Sample ID: MB 885-1932/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air

Analysis Batch: 1932

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 50 ug/L 03/13/24 12:13

MB MB

Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 95 70 - 130 03/13/24 12:13

Lab Sample ID: LCS 885-1932/2 **Client Sample ID: Lab Control Sample**

Matrix: Air

Analysis Batch: 1932

LCS LCS %Rec Spike Added Result Qualifier Unit %Rec Limits ug/L Gasoline Range Organics [C6 -500 505 101

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 102 70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-1628/3 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Air

Analysis Batch: 1628

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| | MB MB | | | | | |
|---------------------------|------------------|------|------|------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D Prepared | Analyzed | Dil Fac |
| 1,1,1,2-Tetrachloroethane | | 0.10 | ug/L | | 03/12/24 13:14 | 1 |
| 1,1,1-Trichloroethane | ND | 0.10 | ug/L | | 03/12/24 13:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ug/L | | 03/12/24 13:14 | 1 |
| 1,1,2-Trichloroethane | ND | 0.10 | ug/L | | 03/12/24 13:14 | 1 |

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Prep Type: Total/NA

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

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Lab Sample ID: MB 885-1628/3

Matrix: Air

Analysis Batch: 1628

Client Sample ID: Method Blank

Prep Type: Total/NA

|) | Prepared | Analyzed | Dil Fac | |
|---|----------|----------|---------|--|

Analyte Result Qualifier RL Unit D 1,1-Dichloroethane ND 0.10 ug/L 03/12/24 13:14 1,1-Dichloroethene ND 0.10 ug/L 03/12/24 13:14 ND 03/12/24 13:14 1,1-Dichloropropene 0.10 ug/L 1,2,3-Trichlorobenzene ND 0.10 ug/L 03/12/24 13:14 ND 0.20 ug/L 1,2,3-Trichloropropane 03/12/24 13:14 1,2,4-Trichlorobenzene ND 0.10 ug/L 03/12/24 13:14 ND 0.10 ug/L 03/12/24 13:14 ND 0.20 03/12/24 13:14

1,2,4-Trimethylbenzene ug/L 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane (EDB) ND 0.10 ug/L 03/12/24 13:14 1,2-Dichlorobenzene ND 0.10 ug/L 03/12/24 13:14 1,2-Dichloroethane (EDC) ND 0.10 ug/L 03/12/24 13:14 ND 1,2-Dichloropropane 0.10 ug/L 03/12/24 13:14 1,3,5-Trimethylbenzene 0.10 ND ug/L 03/12/24 13:14 ND 1,3-Dichlorobenzene 0.10 ug/L 03/12/24 13:14

1,3-Dichloropropane ND 0.10 ug/L 03/12/24 13:14 1,4-Dichlorobenzene NΠ 0.10 ug/L 03/12/24 13:14 1-Methylnaphthalene ND 0.40 ug/L 03/12/24 13:14 2,2-Dichloropropane ND 0.20 ug/L 03/12/24 13:14

2-Butanone ND 1.0 ug/L 03/12/24 13:14 2-Chlorotoluene ND 0.10 ug/L 03/12/24 13:14 2-Hexanone ND 1.0 ug/L 03/12/24 13:14 2-Methylnaphthalene ND 0.40 ug/L 03/12/24 13:14 4-Chlorotoluene ND 0.10 ug/L 03/12/24 13:14 ND 0.10 ug/L 4-Isopropyltoluene 03/12/24 13:14 ND 4-Methyl-2-pentanone 1.0 ug/L 03/12/24 13:14

ND 03/12/24 13:14 Acetone 1.0 ug/L Benzene ND 0.10 ug/L 03/12/24 13:14 Bromobenzene ND 0.10 ug/L 03/12/24 13:14 ug/L Bromodichloromethane ND 0.10 03/12/24 13:14 03/12/24 13:14 Dibromochloromethane ND 0.10 ug/L Bromoform ND 0.10 ug/L 03/12/24 13:14 Bromomethane ND 0.30 ug/L 03/12/24 13:14

Carbon disulfide ND 1.0 ug/L 03/12/24 13:14 Carbon tetrachloride ND 0.10 ug/L 03/12/24 13:14 Chlorobenzene ND 0.10 ug/L 03/12/24 13:14 Chloroethane ND 0.20 ug/L 03/12/24 13:14 Chloroform ND 0.10 ug/L 03/12/24 13:14 ND 0.30 ug/L 03/12/24 13:14 Chloromethane

cis-1,2-Dichloroethene ND 0.10 ug/L 03/12/24 13:14 cis-1,3-Dichloropropene ND 0.10 ug/L 03/12/24 13:14 Dibromomethane ND 0.10 ug/L 03/12/24 13:14 Dichlorodifluoromethane ND 0.10 ug/L 03/12/24 13:14 Ethylbenzene ND 0.10 ug/L 03/12/24 13:14

Hexachlorobutadiene ND 0.10 ug/L 03/12/24 13:14 Isopropylbenzene ND 0.10 ug/L 03/12/24 13:14 Methyl-tert-butyl Ether (MTBE) ND 0.10 ug/L 03/12/24 13:14 Methylene Chloride ND ug/L 0.30 03/12/24 13:14 n-Butylbenzene ND 0.30 ug/L 03/12/24 13:14

ND

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03/12/24 13:14

0.10

ug/L

1

N-Propylbenzene

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-1628/3

Matrix: Air

Analysis Batch: 1628

Client Sample ID: Method Blank

Prep Type: Total/NA

| | MB I | MB | | | | | | |
|---------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Naphthalene | ND | | 0.20 | ug/L | | | 03/12/24 13:14 | 1 |
| sec-Butylbenzene | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| Styrene | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| tert-Butylbenzene | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| Tetrachloroethene (PCE) | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| Toluene | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| Trichloroethene (TCE) | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| Trichlorofluoromethane | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| Vinyl chloride | ND | | 0.10 | ug/L | | | 03/12/24 13:14 | 1 |
| Xylenes, Total | ND | | 0.15 | ug/L | | | 03/12/24 13:14 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared Analyz | ed | Dil Fac |
|------------------------------|-----------|-----------|----------|-----------------|-------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 70 - 130 | 03/12/24 | 13:14 | 1 |
| Toluene-d8 (Surr) | 94 | | 70 - 130 | 03/12/24 : | 13:14 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | 03/12/24 : | 13:14 | 1 |
| Dibromofluoromethane (Surr) | 106 | | 70 - 130 | 03/12/24 | 13:14 | 1 |

Lab Sample ID: STOBLK 885-1628/11

Matrix: Air

Analysis Batch: 1628

Client Sample ID: Method Blank

Prep Type: Total/NA

| | STOBLK STOBLK | | | | | | |
|-----------------------------|------------------|-----|------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1,1,2-Tetrachloroethane | ND ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 1-Methylnaphthalene | ND | 4.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 2,2-Dichloropropane | ND | 2.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 2-Butanone | ND | 10 | ug/L | | | 03/12/24 16:30 | 1 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |

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Released to Imaging: 5/1/2024 2:12:13 PM

Job ID: 885-717-1 Client: Hilcorp Energy

Project/Site: SJ 32 9 Unit 41A

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: STOBLK 885-1628/11

Matrix: Air

Analysis Batch: 1628

Client Sample ID: Method Blank

Prep Type: Total/NA

STOBLK STOBLK

| Analyte | Result Qu | alifier RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|-----------|------------|------|---|----------|----------------|---------|
| 2-Hexanone | ND | 10 | ug/L | | | 03/12/24 16:30 | 1 |
| 2-Methylnaphthalene | ND | 4.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 4-Isopropyltoluene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| 4-Methyl-2-pentanone | ND | 10 | ug/L | | | 03/12/24 16:30 | 1 |
| Acetone | ND | 10 | ug/L | | | 03/12/24 16:30 | 1 |
| Benzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Bromobenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Bromodichloromethane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Dibromochloromethane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Bromoform | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Bromomethane | ND | 3.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Carbon disulfide | ND | 10 | ug/L | | | 03/12/24 16:30 | 1 |
| Carbon tetrachloride | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Chlorobenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Chloroethane | ND | 2.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Chloroform | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Chloromethane | ND | 3.0 | ug/L | | | 03/12/24 16:30 | 1 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Dibromomethane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Ethylbenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Hexachlorobutadiene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Isopropylbenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Methyl-tert-butyl Ether (MTBE) | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Methylene Chloride | ND | 3.0 | ug/L | | | 03/12/24 16:30 | 1 |
| n-Butylbenzene | ND | 3.0 | ug/L | | | 03/12/24 16:30 | 1 |
| N-Propylbenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Naphthalene | ND | 2.0 | ug/L | | | 03/12/24 16:30 | 1 |
| sec-Butylbenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Styrene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| tert-Butylbenzene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Tetrachloroethene (PCE) | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Toluene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Trichloroethene (TCE) | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Vinyl chloride | ND | 1.0 | ug/L | | | 03/12/24 16:30 | 1 |
| Xylenes, Total | ND | 1.5 | ug/L | | | 03/12/24 16:30 | 1 |

STOBLK STOBLK

| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|---|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 70 - 130 | _ | | 03/12/24 16:30 | 1 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 | | | 03/12/24 16:30 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | 03/12/24 16:30 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 70 - 130 | | | 03/12/24 16:30 | 1 |

Eurofins Albuquerque

Released to Imaging: 5/1/2024 2:12:13 PM

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

STOBLK STOBLK

ND

Lab Sample ID: STOBLK 885-1628/12

Matrix: Air

2-Methylnaphthalene

4-Chlorotoluene

Bromobenzene

Bromomethane

Carbon disulfide

Chlorobenzene

Chloromethane

Dibromomethane

Ethylbenzene

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dichlorodifluoromethane

Hexachlorobutadiene

Chloroethane

Chloroform

Carbon tetrachloride

Acetone

Benzene

Bromoform

4-Isopropyltoluene

4-Methyl-2-pentanone

Bromodichloromethane

Dibromochloromethane

Analysis Batch: 1628

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2,3-Trichloropropane | ND | | 2.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 1-Methylnaphthalene | ND | | 4.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 2-Butanone | ND | | 10 | ug/L | | | 03/12/24 16:54 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| 2-Hexanone | ND | | 10 | ug/L | | | 03/12/24 16:54 | 1 |

4.0

1.0

1.0

10

10

1.0

1.0

1.0

1.0

1.0

3.0

10

1.0

1.0

2.0

1.0

3.0

1.0

1.0

1.0

1.0

1.0

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ug/L

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Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: STOBLK 885-1628/12 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air

Analysis Batch: 1628

| - | STOBLK | STOBLK | | | | | | |
|--------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Isopropylbenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Methyl-tert-butyl Ether (MTBE) | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Methylene Chloride | ND | | 3.0 | ug/L | | | 03/12/24 16:54 | 1 |
| n-Butylbenzene | ND | | 3.0 | ug/L | | | 03/12/24 16:54 | 1 |
| N-Propylbenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Naphthalene | ND | | 2.0 | ug/L | | | 03/12/24 16:54 | 1 |
| sec-Butylbenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Styrene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| tert-Butylbenzene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Tetrachloroethene (PCE) | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Toluene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Trichloroethene (TCE) | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Vinyl chloride | ND | | 1.0 | ug/L | | | 03/12/24 16:54 | 1 |
| Xylenes, Total | ND | | 1.5 | ug/L | | | 03/12/24 16:54 | 1 |

STOBLK STOBLK

| | 0.022.0 | | | | |
|------------------------------|---------------------|----------|----------|----------------|---------|
| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | 70 - 130 | | 03/12/24 16:54 | 1 |
| Toluene-d8 (Surr) | 95 | 70 - 130 | | 03/12/24 16:54 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | 70 - 130 | | 03/12/24 16:54 | 1 |
| Dibromofluoromethane (Surr) | 103 | 70 - 130 | | 03/12/24 16:54 | 1 |

Lab Sample ID: LCS 885-1628/2

Matrix: Air

Analysis Batch: 1628

Client Sample ID: Lab Control Sample Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec | |
|-----------------------|-------|--------|-----------|------|---|------|--------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 20.1 | 18.4 | | ug/L | | 91 | | |
| Benzene | 20.1 | 19.4 | | ug/L | | 97 | | |
| Chlorobenzene | 20.1 | 19.5 | | ug/L | | 97 | | |
| Toluene | 20.2 | 19.0 | | ug/L | | 94 | | |
| Trichloroethene (TCE) | 20.2 | 18.8 | | ug/L | | 93 | | |
| | | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 |
| Toluene-d8 (Surr) | 98 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 104 | | 70 - 130 |

Lab Sample ID: MB 885-1708/3

Released to Imaging: 5/1/2024 2:12:13 PM

Matrix: Air

Analysis Batch: 1708

Client Sample ID: Method Blank Prep Type: Total/NA

| | MR MR | | | | | | |
|---------------------------|------------------|-----|------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1,1,2-Tetrachloroethane | ND — | 1.0 | ug/L | | | 03/13/24 12:13 | 1 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | | | 03/13/24 12:13 | 1 |

Eurofins Albuquerque

LCS LCS

Client: Hilcorp Energy Job ID: 885-717-1 Project/Site: SJ 32 9 Unit 41A

RL

2.0

1.0

Unit

ug/L

ug/L

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MB MB Result Qualifier

ND

ND

Lab Sample ID: MB 885-1708/3

Matrix: Air

Analysis Batch: 1708

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

| Client Sample | ID: Method Blank | |
|---------------|--------------------|--|
| Pr | rep Type: Total/NA | |

| D | Prepared | Analyzed | Dil Fac |
|---|----------|----------------|---------|
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |
| | | 03/13/24 12:13 | 1 |

| 1, 1,2-THCHIOTOELHAHE | ND | 1.0 | ug/L | 03/13/24 12.13 |
|--------------------------------|----------|-----|--------------|----------------|
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/L | 03/13/24 12:13 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | ug/L | 03/13/24 12:13 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 1-Methylnaphthalene | ND | 4.0 | ug/L | 03/13/24 12:13 |
| 2,2-Dichloropropane | ND | 2.0 | ug/L | 03/13/24 12:13 |
| 2-Butanone | ND | 10 | ug/L | 03/13/24 12:13 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 2-Hexanone | ND | 10 | ug/L | 03/13/24 12:13 |
| 2-Methylnaphthalene | ND | 4.0 | ug/L | 03/13/24 12:13 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 4-Isopropyltoluene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| 4-Methyl-2-pentanone | ND | 10 | ug/L | 03/13/24 12:13 |
| Acetone | ND | 10 | ug/L | 03/13/24 12:13 |
| Benzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Bromobenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Bromodichloromethane | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Dibromochloromethane | ND | 1.0 | | 03/13/24 12:13 |
| Bromoform | ND | 1.0 | ug/L ug/L | 03/13/24 12:13 |
| Bromomethane | ND ND | 3.0 | ug/L | 03/13/24 12:13 |
| Carbon disulfide | ND | 10 | | 03/13/24 12:13 |
| | | | ug/L | 03/13/24 12:13 |
| Carbon tetrachloride | ND | 1.0 | ug/L | |
| Chlorothere | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Chloroethane | ND | 2.0 | ug/L | 03/13/24 12:13 |
| Chloroform | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Chloromethane | ND | 3.0 | ug/L | 03/13/24 12:13 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Dibromomethane | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Ethylbenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Hexachlorobutadiene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Isopropylbenzene | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Methyl-tert-butyl Ether (MTBE) | ND | 1.0 | ug/L | 03/13/24 12:13 |
| Methylene Chloride | ND | 3.0 | ug/L | 03/13/24 12:13 |

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QC Sample Results

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-1708/3

Matrix: Air

Analysis Batch: 1708

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL Unit **Prepared** Analyzed Dil Fac n-Butylbenzene ND 3.0 ug/L 03/13/24 12:13 N-Propylbenzene ND 1.0 ug/L 03/13/24 12:13 Naphthalene ND 03/13/24 12:13 2.0 ug/L sec-Butylbenzene ND 1.0 ug/L 03/13/24 12:13 Styrene ND 1.0 ug/L 03/13/24 12:13 tert-Butylbenzene ND 1.0 ug/L 03/13/24 12:13 Tetrachloroethene (PCE) ND 1.0 ug/L 03/13/24 12:13 Toluene ND ug/L 1.0 03/13/24 12:13 ND ug/L trans-1,2-Dichloroethene 1.0 03/13/24 12:13 trans-1,3-Dichloropropene ND 1.0 ug/L 03/13/24 12:13 Trichloroethene (TCE) ND ug/L 03/13/24 12:13 1.0 ND Trichlorofluoromethane ug/L 03/13/24 12:13 1.0 Vinyl chloride ND 1.0 ug/L 03/13/24 12:13 Xylenes, Total ND 1.5 ug/L 03/13/24 12:13

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared Analy. | zed Dil Fac |
|------------------------------|---------------------|----------|-----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | 70 - 130 | 03/13/24 | 12:13 |
| Toluene-d8 (Surr) | 95 | 70 - 130 | 03/13/24 | 12:13 1 |
| 4-Bromofluorobenzene (Surr) | 99 | 70 - 130 | 03/13/24 | 12:13 1 |
| Dibromofluoromethane (Surr) | 103 | 70 - 130 | 03/13/24 | 12:13 1 |

Lab Sample ID: LCS 885-1708/2

Matrix: Air

Analysis Batch: 1708

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec | | |
|-----------------------|-------|--------|-----------|------|---|------|--------|------|---|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| 1,1-Dichloroethene | 20.1 | 17.7 | | ug/L | | 88 | | | _ |
| Benzene | 20.1 | 19.3 | | ug/L | | 96 | | | |
| Chlorobenzene | 20.1 | 20.1 | | ug/L | | 100 | | | |
| Toluene | 20.2 | 19.6 | | ug/L | | 97 | | | |
| Trichloroethene (TCE) | 20.2 | 18.7 | | ug/L | | 92 | | | |

| I CS | I CS | |
|------|------|--|

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | - | 70 - 130 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 100 | | 70 - 130 |

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QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 32 9 Unit 41A

Job ID: 885-717-1

GC/MS VOA

Analysis Batch: 1628

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 885-717-1 | SVE-1 | Total/NA | Air | 8260B | |
| MB 885-1628/3 | Method Blank | Total/NA | Air | 8260B | |
| STOBLK 885-1628/11 | Method Blank | Total/NA | Air | 8260B | |
| STOBLK 885-1628/12 | Method Blank | Total/NA | Air | 8260B | |
| LCS 885-1628/2 | Lab Control Sample | Total/NA | Air | 8260B | |

Analysis Batch: 1708

| Lab Sample ID 885-717-1 | Client Sample ID SVE-1 | Prep Type Total/NA | Matrix Air | Method 8260B | Prep Batch |
|--------------------------------|------------------------|--------------------|------------|-----------------|------------|
| MB 885-1708/3 | Method Blank | Total/NA | Air | 8260B | |
| LCS 885-1708/2 | Lab Control Sample | Total/NA | Air | 8260B | |

Analysis Batch: 1848

| Lab Sample ID 885-717-1 | Client Sample ID SVE-1 | Prep Type Total/NA | Matrix Air | Method 8015D | Prep Batch |
|-----------------------------------|------------------------|---------------------|------------|-----------------|------------|
| MB 885-1848/3 | Method Blank | Total/NA | Air | 8015D | |
| LCS 885-1848/2 | Lab Control Sample | Total/NA | Air | 8015D | |

Analysis Batch: 1932

| Lab Sample ID 885-717-1 | Client Sample ID SVE-1 | Prep Type Total/NA | Matrix Air | Method 8015D | Prep Batch |
|-----------------------------------|-------------------------|--------------------|------------|--------------|------------|
| MB 885-1932/3 | Method Blank | Total/NA | Air | 8015D | |
| LCS 885-1932/2 | Lab Control Sample | Total/NA | Air | 8015D | |

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Lab Chronicle

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Date Received: 03/07/24 07:15

Lab Sample ID: 885-717-1 **Client Sample ID: SVE-1** Date Collected: 03/05/24 13:15

Matrix: Air

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8015D | | 20 | 1848 | СМ | EET ALB | 03/12/24 15:41 |
| Total/NA | Analysis | 8015D | | 1 | 1932 | CM | EET ALB | 03/13/24 12:37 |
| Total/NA | Analysis | 8260B | | 20 | 1628 | CM | EET ALB | 03/12/24 15:41 |
| Total/NA | Analysis | 8260B | | 1 | 1708 | CM | EET ALB | 03/13/24 12:37 |

Laboratory References:

Released to Imaging: 5/1/2024 2:12:13 PM

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

^{= , 1120} South 27th Street, Billings, MT 59107

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| hority | Progra | am | Identification Number | Expiration Date | |
|-----------------|------------------------------|--------|---------------------------------------|----------------------------|--|
| / Mexico | State | | NM9425, NM0901 | 02-26-25 | |
| | s are included in this repor | • | not certified by the governing author | rity. This list may includ | |
| Analysis Method | Prep Method | Matrix | Analyte | | |
| 8015D | - | Air | Gasoline Range Organic | cs [C6 - C10] | |
| 8260B | | Air | 1,1,1,2-Tetrachloroethan | е | |
| 8260B | | Air | 1,1,1-Trichloroethane | | |
| 8260B | | Air | 1,1,2,2-Tetrachloroethan | е | |
| 8260B | | Air | 1,1,2-Trichloroethane | | |
| 8260B | | Air | 1,1-Dichloroethane | | |
| 8260B | | Air | 1,1-Dichloroethene | | |
| 8260B | | Air | 1,1-Dichloropropene | | |
| 8260B | | Air | 1,2,3-Trichlorobenzene | | |
| 8260B | | Air | 1,2,3-Trichloropropane | | |
| 8260B | | Air | 1,2,4-Trichlorobenzene | | |
| 8260B | | Air | 1,2,4-Trimethylbenzene | | |
| 8260B | | Air | 1,2-Dibromo-3-Chloropro | ppane | |
| 8260B | | Air | 1,2-Dibromoethane (EDI | 3) | |
| 8260B | | Air | 1,2-Dichlorobenzene | | |
| 8260B | | Air | 1,2-Dichloroethane (EDC | C) | |
| 8260B | | Air | 1,2-Dichloropropane | | |
| 8260B | | Air | 1,3,5-Trimethylbenzene | | |
| 8260B | | Air | 1,3-Dichlorobenzene | | |
| 8260B | | Air | 1,3-Dichloropropane | | |
| 8260B | | Air | 1,4-Dichlorobenzene | | |
| 8260B | | Air | 1-Methylnaphthalene | | |
| 8260B | | Air | 2,2-Dichloropropane | | |
| 8260B | | Air | 2-Butanone | | |
| 8260B | | Air | 2-Chlorotoluene | | |
| 8260B | | Air | 2-Hexanone | | |
| 8260B | | Air | 2-Methylnaphthalene | | |
| 8260B | | Air | 4-Chlorotoluene | | |
| 8260B | | Air | 4-Isopropyltoluene | | |
| 8260B | | Air | 4-Methyl-2-pentanone | | |
| 8260B | | Air | Acetone | | |
| 8260B | | Air | Benzene | | |
| 8260B | | Air | Bromobenzene | | |
| 8260B | | Air | Bromodichloromethane | | |
| 8260B | | Air | Bromoform | | |
| 8260B | | Air | Bromomethane | | |
| 8260B | | Air | Carbon disulfide | | |
| | | | | | |

Air

Air

Air

Air

Air

Air

Air

Air

Eurofins Albuquerque

Carbon tetrachloride

Chlorobenzene

Chloromethane

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dibromochloromethane

Chloroethane

Chloroform

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8260B

8260B

8260B

8260B

8260B

8260B

8260B

8260B

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Progra | m | Identification Number Expiration Date |
|-----------------|--|---------------------------|--|
| , | s are included in this report does not offer certification. | , but the laboratory is ı | not certified by the governing authority. This list may include analytes |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8260B | | Air | Dibromomethane |
| 8260B | | Air | Dichlorodifluoromethane |
| 8260B | | Air | Ethylbenzene |
| 8260B | | Air | Hexachlorobutadiene |
| 8260B | | Air | Isopropylbenzene |
| 8260B | | Air | Methylene Chloride |
| 8260B | | Air | Methyl-tert-butyl Ether (MTBE) |
| 8260B | | Air | Naphthalene |
| 8260B | | Air | n-Butylbenzene |
| 8260B | | Air | N-Propylbenzene |
| 8260B | | Air | sec-Butylbenzene |
| 8260B | | Air | Styrene |
| 8260B | | Air | tert-Butylbenzene |
| 8260B | | Air | Tetrachloroethene (PCE) |
| 8260B | | Air | Toluene |
| 8260B | | Air | trans-1,2-Dichloroethene |
| 8260B | | Air | trans-1,3-Dichloropropene |
| 8260B | | Air | Trichloroethene (TCE) |
| 8260B | | Air | Trichlorofluoromethane |
| 8260B | | Air | Vinyl chloride |
| 8260B | | Air | Xylenes, Total |
| Oregon | NELAP | | NM100001 02-26-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------------------------------|
| 8015D | | Air | Gasoline Range Organics [C6 - C10] |
| 8260B | | Air | 1,1,1,2-Tetrachloroethane |
| 8260B | | Air | 1,1,1-Trichloroethane |
| 8260B | | Air | 1,1,2,2-Tetrachloroethane |
| 8260B | | Air | 1,1,2-Trichloroethane |
| 8260B | | Air | 1,1-Dichloroethane |
| 8260B | | Air | 1,1-Dichloroethene |
| 8260B | | Air | 1,1-Dichloropropene |
| 8260B | | Air | 1,2,3-Trichlorobenzene |
| 8260B | | Air | 1,2,3-Trichloropropane |
| 8260B | | Air | 1,2,4-Trichlorobenzene |
| 8260B | | Air | 1,2,4-Trimethylbenzene |
| 8260B | | Air | 1,2-Dibromo-3-Chloropropane |
| 8260B | | Air | 1,2-Dibromoethane (EDB) |
| 8260B | | Air | 1,2-Dichlorobenzene |
| 8260B | | Air | 1,2-Dichloroethane (EDC) |
| 8260B | | Air | 1,2-Dichloropropane |
| 8260B | | Air | 1,3,5-Trimethylbenzene |
| 8260B | | Air | 1,3-Dichlorobenzene |
| 8260B | | Air | 1,3-Dichloropropane |
| 8260B | | Air | 1,4-Dichlorobenzene |
| | | | |

Eurofins Albuquerque

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Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-717-1

Project/Site: SJ 32 9 Unit 41A

Laboratory: Eurofins Albuquerque (Continued) Unless otherwise noted, all analytes for this laboratory were covered under a

| ority | Progra | am | Identification Number Expiration Date |
|-----------------------|------------------------------|-----------------------------|--|
| The following analyte | s are included in this repo | rt, but the laboratory is r | not certified by the governing authority. This list may include anal |
| | does not offer certification | | , 3 3 , , , |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8260B | | Air | 1-Methylnaphthalene |
| 8260B | | Air | 2,2-Dichloropropane |
| 8260B | | Air | 2-Butanone |
| 8260B | | Air | 2-Chlorotoluene |
| 8260B | | Air | 2-Hexanone |
| 8260B | | Air | 2-Methylnaphthalene |
| 8260B | | Air | 4-Chlorotoluene |
| 8260B | | Air | 4-Isopropyltoluene |
| 8260B | | Air | 4-Methyl-2-pentanone |
| 8260B | | Air | Acetone |
| 8260B | | Air | Benzene |
| 8260B | | Air | Bromobenzene |
| 8260B | | Air | Bromodichloromethane |
| 8260B | | Air | Bromoform |
| 8260B | | Air | Bromomethane |
| 8260B | | Air | Carbon disulfide |
| 8260B | | Air | Carbon tetrachloride |
| 8260B | | Air | Chlorobenzene |
| 8260B | | Air | Chloroethane |
| 8260B | | Air | Chloroform |
| 8260B | | Air | Chloromethane |
| 8260B | | Air | cis-1,2-Dichloroethene |
| 8260B | | Air | cis-1,3-Dichloropropene |
| 8260B | | Air | Dibromochloromethane |
| 8260B | | Air | Dibromomethane |
| 8260B | | Air | Dichlorodifluoromethane |
| 8260B | | Air | Ethylbenzene |
| 8260B | | Air | Hexachlorobutadiene |
| 8260B | | Air | Isopropylbenzene |
| 8260B | | Air | Methylene Chloride |
| 8260B | | Air | Methyl-tert-butyl Ether (MTBE) |
| 8260B | | Air | Naphthalene |
| 8260B | | Air | n-Butylbenzene |
| 8260B | | Air | N-Propylbenzene |
| 8260B | | Air | sec-Butylbenzene |
| 8260B | | Air | Styrene |
| 8260B | | Air | tert-Butylbenzene |
| 8260B | | Air | Tetrachloroethene (PCE) |
| 8260B | | Air | Toluene |
| 8260B | | Air | |
| | | | trans-1,2-Dichloroethene |
| 8260B | | Air Air | trans-1,3-Dichloropropene |
| 8260B | | Air | Trichloroethene (TCE) |
| 8260B | | Air | Trichlorofluoromethane |
| 8260B 8260B | | Air Air | Vinyl chloride Xylenes, Total |

Eurofins Albuquerque

Method Summary

Client: Hilcorp Energy

Project/Site: SJ 32 9 Unit 41A

Job ID: 885-717-1

| Method | Method Description | Protocol | Laboratory |
|-------------|---|----------|------------|
| 8015D | Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics) | SW846 | EET ALB |
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | EET ALB |
| Subcontract | Fixed Gases | None | |
| 5030C | Collection/Prep Tedlar Bag (P&T) | SW846 | EET ALB |

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59107

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

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ANALYTICAL SUMMARY REPORT

March 19, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B24030517 Quote ID: B15626

Project Name: SJ 32 9 Unit 41A

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 3/8/2024 for analysis.

| 0, | · · | o i | | • |
|---------------|-------------------|---------------------------|---------|---|
| Lab ID | Client Sample ID | Collect Date Receive Date | Matri x | Test |
| B24030517-001 | SVE-1 (885-717-1) | 03/05/24 13:15 03/08/24 | Air | Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60 |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

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Billings, MT 406.252.6325 . Casper, WY 307.235.0515

Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: SJ 32 9 Unit 41A Lab ID: B24030517-001 Client Sample ID: SVE-1 (885-717-1)

Report Date: 03/19/24 Collection Date: 03/05/24 13:15 DateReceived: 03/08/24 Matrix: Air

| | | | | | MCL/ | | |
|---|---------|-------|------------|-------|------|-------------|----------------------|
| Analyses | Result | Units | Qualifiers | RL | QCL | Method | Analysis Date / By |
| GAS CHROMATOGRAPHY ANALYSIS F | REPORT | | | | | | |
| Oxygen | 21.78 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Nitrogen | 77.99 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Carbon Dioxide | 0.21 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Hydrogen Sulfide | < 0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Methane | 0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Ethane | < 0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Propane | < 0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Isobutane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| n-Butane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Isopentane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| n-Pentane | <0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Hexanes plus | 0.01 | Mol % | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Propane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Isobutane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| n-Butane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Isopentane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| n-Pentane | < 0.001 | gpm | | 0.001 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Hexanes plus | 0.004 | gpm | | 0.001 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| GPM Total | 0.004 | gpm | | 0.001 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| GPM Pentanes plus | 0.004 | gpm | | 0.001 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| CALCULATED PROPERTIES | | | | | | | |
| Gross BTU per cu ft @ Std Cond. (HHV) | 1 | | | 1 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Net BTU per cu ft @ std cond. (LHV) | 1 | | | 1 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Pseudo-critical Pressure, psia | 546 | | | 1 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Pseudo-critical Temperature, deg R | 239 | | | 1 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| Specific Gravity @ 60/60F | 0.999 | | | 0.001 | | D3588-81 | 03/12/24 01:28 / jrj |
| Air, % | 99.53 | | | 0.01 | | GPA 2261-95 | 03/12/24 01:28 / jrj |
| - The analysis was not corrected for air. | | | | | | | |
| COMMENTS | | | | | | | |

COMMENTS

03/12/24 01:28 / jrj

Report RL - Analyte Reporting Limit MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

<sup>BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.
GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.
Standard conditions: 60 F & 14.73 psi on a dry basis</sup>



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental Work Order: B24030517 Report Date: 03/19/24

| Analyte | | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------|-------------------|--------|-------------|--------------|------|------|-----------|-------------|-----|----------|----------|
| Method: | GPA 2261-95 | | | | | | | | | Batch: | R417974 |
| Lab ID: | B24030510-001ADUP | 12 Saı | mple Duplic | ate | | F | Run: GCNG | A-B_240312A | | 03/12/ | 24 10:57 |
| Oxygen | | | 22.3 | Mol % | 0.01 | | | | 0.3 | 20 | |
| Nitrogen | | | 77.4 | Mol % | 0.01 | | | | 0.1 | 20 | |
| Carbon D | ioxide | | 0.10 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Hydrogen | Sulfide | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Methane | | | 0.14 | Mol % | 0.01 | | | | 13 | 20 | |
| Ethane | | | 0.01 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Propane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isobutane | • | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Butane | | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isopentan | ie | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Pentane | е | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Hexanes | plus | | 0.01 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Lab ID: | LCS031224 | 11 Lab | ooratory Co | ntrol Sample | | F | Run: GCNG | A-B_240312A | | 03/12/ | 24 03:08 |
| Oxygen | | | 0.63 | Mol % | 0.01 | 126 | 70 | 130 | | | |
| Nitrogen | | | 6.14 | Mol % | 0.01 | 102 | 70 | 130 | | | |
| Carbon D | ioxide | | 0.99 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Methane | | | 74.7 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Ethane | | | 6.04 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Propane | | | 5.03 | Mol % | 0.01 | 102 | 70 | 130 | | | |
| Isobutane | • | | 1.66 | Mol % | 0.01 | 83 | 70 | 130 | | | |
| n-Butane | | | 2.00 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Isopentan | e | | 0.99 | Mol % | 0.01 | 99 | 70 | 130 | | | |
| n-Pentane | e | | 1.00 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Hexanes | plus | | 0.78 | Mol % | 0.01 | 98 | 70 | 130 | | | |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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B24030517

Work Order Receipt Checklist

Hall Environmental

| Login completed by: | Crystal M. Jones | | Date | Received: 3/8/2024 | |
|---|---------------------------------|--------------|------|------------------------|--|
| Reviewed by: | gmccartney | | Re | ceived by: CMJ | |
| Reviewed Date: | 3/13/2024 | | Car | rier name: FedEx | |
| Shipping container/cooler in | good condition? | Yes √ | No 🗌 | Not Present | |
| Custody seals intact on all s | hipping container(s)/cooler(s)? | Yes √ | No 🗌 | Not Present | |
| Custody seals intact on all s | ample bottles? | Yes | No 🗌 | Not Present ✓ | |
| Chain of custody present? | | Yes √ | No 🗌 | | |
| Chain of custody signed who | en relinquished and received? | Yes 🗹 | No 🗌 | | |
| Chain of custody agrees with | n sample labels? | Yes 🗹 | No 🗌 | | |
| Samples in proper container | /bottle? | Yes √ | No 🗌 | | |
| Sample containers intact? | | Yes √ | No 🗌 | | |
| Sufficient sample volume for | indicated test? | Yes √ | No 🗌 | | |
| All samples received within h (Exclude analyses that are c such as pH, DO, Res Cl, Su | onsidered field parameters | Yes 🗸 | No 🗌 | | |
| Temp Blank received in all s | hipping container(s)/cooler(s)? | Yes | No 🗹 | Not Applicable | |
| Container/Temp Blank tempe | erature: | 9.8°C No Ice | | | |
| Containers requiring zero he bubble that is <6mm (1/4"). | adspace have no headspace or | Yes | No 🗌 | No VOA vials submitted | |
| Water - pH acceptable upon | receipt? | Yes | No 🗌 | Not Applicable 🗸 | |
| | | | | | |

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

Eurofins Albuquerque 4901 Hawkins NE

Chain of Custody Record

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| Phone: 505-345-3975 Fax: 505-345-4107 | | | | | | | | | | | | 40.00 | | | | | | 7 | |
|---|-------------------------------|-------------------|---------------------------------------|--|------------------|----------------------------|---------|------------|----------|--------|----------|-------------|---------|----------|-----------|--------------|---|---------------------------------------|------|
| Client Information (Sub Contract Lab) | Sampler: | | | | ab PM: reemar | n, And | у | | | | C | arrier Trac | cking f | No(s): | | | COC No: 885-91.1 | | |
| Client Contact: Shipping/Receiving | Phone: | | | | | | | urofinsu | | i i | | tate of Ori | | | | | Page: Page 1 of 1 | | |
| Company: Energy Laboratories, Inc. | | | | | | | | quired (So | | v Mex | ico | | | | | | Job #: 885-717-1 | | |
| Address: | Due Date Request | ed: | | | - INL | LAI - | Oreg | | | | | | _ | | | _ | Preservation Cod | ies: | _ |
| 1120 South 27th Street, , | 3/14/2024 | | | | | | | | Anal | ysis | Requ | ested | | | | | A - HCL | M - Hexane N - None | |
| City: Billings | TAT Requested (d | ays): | | | | | | | | | | | | | | | B - NaOH C - Zn Acetate D - Nitric Acid | O - AsNaO2 P - Na2O4S | |
| State, Zip: MT, 59107 | | | | | | | | | | | | | | | | | E - NaHSO4 F - MeOH | Q - Na2SO3 R - Na2S2O3 | |
| Phone: | PO #: | | | | 9 | | | | | | | | | | | | G - Amchlor H - Ascorbic Acid | S - H2SO4 T - TSP Dodecahydra | ite |
| Email: | WO #: | | | | SorN | No. | 3 | 1.1 | | | | | | | | E | I - Ice J - DI Water | U - Acetone V - MCAA W - pH 4-5 | |
| Project Name: SJ 32 9 Unit 41A | Project #: 88500415 | | | | le (Yes or | 'es or | | | | | | | | | | ntaine | K - EDTA L - EDA | Y - Trizma Z - other (specify) | |
| Site: | SSOW#: | | | | Samp | SDO | | | | | | | | | | of co | Other: | | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid, O=waste/ol | 9 | Perform MS/MSD (Yes or No) | | | | | | | | | | Total Number | Special In | structions/Note: | |
| Cumple faction of the last of | | X | | tion Code | | \mathbf{x}^{-} | | | | | | | | | | X | | | |
| SVE-1 (885-717-1) | 3/5/24 | 13:15 Mountain | | Air | |) | < | | | | | | | | | 1 | BZUOZOS | 517 | |
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| Note: Since laboratory accreditations are subject to change, Eurofins Envi laboratory does not currently maintain accreditation in the State of Origin accreditation status should be brought to Eurofins Environment Testing S | listed above for analysis/tes | ts/matrix being | analyzed, the | samples mu | ist be sh | ipped b | ack to | the Eurof | ns Envir | onment | Testing | South Ce | entral, | LLC labo | ratory or | othe | er instructions will be | provided. Any change | s to |
| Possible Hazard Identification | | | | | | | | | | | | | | | | | d longer than 1 | | |
| Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliver | ahle Bank | 2 | | | | | rn To Ca | | | | posal By | y Lab | 6. | -An | chiv | re For | Months | |
| | 1 milary Deliver | | 4 | | | | ui iiis | uuuuu | J QO I | cquire | - Incinc | | | | | | | | |
| Empty Kit Relinquished by: | | Date: | | | Tin | | | | | | | Meth | | Shipment | | | | | |
| Relinquished by: | Date/Time: 317 | 24 | 14:30 | Company | | Re | eceive | i by. | | | | | | Date/Tim | e: | | | Company | |
| Relinquished by | Date/Time: | | | Company | | Re | eceive | i by: | | | | | | Date/Tim | e: | | | Company | |
| Relinquished by: | Date/Time: | | | Company | | Re | ceive | by | -0 | nes k | 1 6 | Fares | | Date/Tim | e: | | 9430 | Company | |
| Custody Seals Intact: Custody Seal No.: | | | | | 1 - | E's | oler T | emperatu | re(s) °C | nd Ott | ner Rem | arks: | | | :11 | | ingut, illin | | |

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Received by OCD: 4/15/2024 11:09:28 AM

ICOC No: 885-91

Containers

Count

Container Type Tedlar Bag 1L Preservative

None

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| Client: | Hilcor | D | | ☑ Standard | □ Rush | | | | | $\overline{}$ | _ | | | | | | | | RA | | |
| | | | | Project Nam | e: | | | | | | | | | | | | al.co | | | . • | |
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| | | ****** | | Project #: | - 4 4 4 | | | | | | 5-34 | | | | | | | 4107 | | | |
| Phone | #. | | | | | | | | | 1. 50 | J-32 | 13-3 | | | | | uest | _ | | | |
| | | randon | Sinclair hilcorp.com | Project Mana | ager: | | | | <u> </u> | | | Î | | | 1 | | | | | | |
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| ⊐ Star | • | | ☐ Level 4 (Full Validation) | Kate 1 | Caufman | | | TMB's (8021) | / DRO / MRO) | PCB's | | PAHs by 8310 or 8270SIMS | | PO4, | | | Total Coliform (Present/Absent) | | B C | | |
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| 8/1/2U | 1750 | 1 /4 | Mest Wall | me (| com: | 3/7/24 0 | 715 | | | | | | | | | | | | | | |

13 12

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Login Sample Receipt Checklist

Job Number: 885-717-1 Client: Hilcorp Energy

Login Number: 717 List Source: Eurofins Albuquerque

List Number: 1

Creator: Lowman, Nick

Answer Comment Question Radioactivity wasn't checked or is </= background as measured by a survey True meter. The cooler's custody seal, if present, is intact. True Sample custody seals, if present, are intact. True The cooler or samples do not appear to have been compromised or True tampered with. N/A Samples were received on ice. Cooler Temperature is acceptable. N/A Cooler Temperature is recorded. N/A COC is present. True True COC is filled out in ink and legible. COC is filled out with all pertinent information. True Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. True Samples are received within Holding Time (excluding tests with immediate True HTs) True Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. True Appropriate sample containers are used. True Sample bottles are completely filled. True Sample Preservation Verified. True There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs

True

True

True

N/A

<6mm (1/4").

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

Containers requiring zero headspace have no headspace or bubble is

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 333286

CONDITIONS

| Operator: | OGRID: |
|------------------------|---|
| HILCORP ENERGY COMPANY | 372171 |
| 1111 Travis Street | Action Number: |
| Houston, TX 77002 | 333286 |
| | Action Type: |
| | [REPORT] Alternative Remediation Report (C-141AR) |

CONDITIONS

| Created | Condition | Condition |
|---------|--|-----------|
| Ву | | Date |
| nvelez | 1. Continue with O & M schedule. 2. Submit next quarterly report by July 15, 2024. | 5/1/2024 |