

Accepted - 09/27/2022

NV



October 31, 2021

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

Subject: Third Quarter 2021 - Solar SVE System Update
Bell Federal Gas Com B 1
San Juan County, New Mexico
Hilcorp Energy Company
API # 30-045-09772
Incident # NCS1729355513

To Whom it May Concern:

WSP USA, Inc. (WSP), on behalf of Hilcorp Energy Company (Hilcorp), presents the following third quarter 2021 summary report discussing the solar soil vapor extraction (SVE) system performance at the Bell Federal GC B#1 natural gas production well (Site). The solar SVE system was installed on January 16, 2018 to remediate subsurface soil impacts following an act of vandalism that resulted in the release of approximately 58 barrels (bbls) of natural gas condensate. SVE installation, soil sampling, and delineation activities are summarized in previous reports submitted to the New Mexico Oil Conservation Division (NMOCD) for each quarter of operation.

SITE BACKGROUND

The solar SVE system consists of a 1/3 horsepower blower capable of producing 22 cubic feet per minute (cfm) at a vacuum of 29 inches of water column. The blower is powered by four, 12-volt deep cycle batteries that are charged throughout the day via three solar panels with a nominal maximum power output of 915 watts. Blower operation is controlled via a timer that is scheduled to maximize runtime that coincides with the seasonally available solar recharge, typically 10 hours in the winter and 12 hours in the summer, for Farmington, New Mexico.

THIRD QUARTER OPERATION

Between startup (January 16, 2018) and the last operation and maintenance (O&M) site visit on September 27, 2021, there have been 1,350 days, with an estimated 16,333 total hours of available nominal daylight in which the solar SVE system could operate. Of the available runtime hours since installation, the system has an actual runtime of 12,807 hours, for an overall runtime efficiency of 78.4 percent (%). Between June 10, 2021 and September 27, 2021, there have been 109 days, with an estimated 1,441 total hours of available nominal daylight in which the solar SVE system could operate. Of the available runtime hours during the third quarter of 2021, the system has an actual runtime of 400 hours, for an overall runtime efficiency during the third quarter of 2021 of 27.8 %.

Based on runtime hours collected during regular O&M visits between 2019 and 2020, runtime began to decrease during the first quarter of 2021. Issues with the system were first noted in June 2021, but because the system was not yet connected to Hilcorp's telemetry network, WSP and Hilcorp were unable to identify the cause of the problem until August 2021. It appears that there was a decrease in the capacity of the system batteries starting at the beginning of 2021. Based on runtime data collected from the SVE system, the system was likely not operating, or operating intermittently, between May and August 2021.

WSP personnel removed the batteries from the system on August 19, 2021 to recharge and replace, as needed. On August 26, 2021, the batteries were re-installed and the system was restarted. Between August 26, 2021 and September 27, 2021, there have been 33 days, with an estimated 402 total hours of available nominal daylight hours in which the solar SVE system could operate. Of the available runtime hours during this time of 2021, the system

WSP USA
848 EAST 2ND AVENUE
DURANGO CO 81301

Tel.: 970-385-1096
wsp.com



has an actual runtime of 395 hours, for an overall runtime efficiency during this time period of 2021 of 98.3 percent (%).

Below is a table summarizing SVE runtime in comparison with nominal available daylight hours, per month, according to the National Oceanic and Atmospheric Administration's (NOAA) National Weather Service.

3rd Quarter Table 2021

Time Period	January 16, 2018 to June 10, 2021	June 10, 2021 to July 31, 2021	August 1, 2020 to August 31, 2020	September 1, 2020 to September 27, 2020
Days	1,241	51	31	27
Avg. Nominal Daylight Hours	12	14	13	12
Available Runtime Hours	14,892	714	403	324

Total Available Q3 Daylight Runtime Hours 1,441

Actual Q3 Runtime Hours 400

% Runtime 27.8%

AIR SAMPLING AND SYSTEM PERFORMANCE

An initial air sample was collected on January 24, 2018, from the solar SVE system discharge exhaust stack. Subsequent air samples have been collected quarterly with the most recent sample collected on September 8, 2021. Samples were collected in Tedlar® bags and submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis of benzene, ethylbenzene, toluene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method 8021B and total volatile petroleum hydrocarbons (TVPH) by EPA method 8015D. Air sampling data are summarized in Table 1, with the complete laboratory report included as Enclosure A. Overall, BTEX and TVPH concentrations were lower than average during the first two quarters of 2021 due to decreased runtime from battery performance issues. However, concentrations increased significantly during the third quarter 2021 sampling event once the system was operating at full capacity.

Since the solar SVE system installation, approximately 60.9 gallons of liquid phase separated hydrocarbons (PSH) have been recovered from the SVE wells and liquid-vapor separator tank. Based on the air sample data collected to date, the estimated mass air emissions were calculated using air sample analytical results and exhaust flow rates (Table 2). The impacted mass source removal via the solar SVE system to date is an estimated 17,920 pounds of TVPH. Including the PSH and vapor phase hydrocarbons, an estimated total of 2,951 gallons (or 70 bbls) of PSH and air equivalent condensate have been recovered to date.

UPCOMING ACTIVITIES

During the upcoming fourth quarter 2021 operations, Site visits will resume on a twice per month basis by Hilcorp and WSP personnel. In addition to routine O&M visits, the SVE system has been connected to Hilcorp's telemetry network. If the system experiences downtime, a Hilcorp environmental specialist will be notified via email immediately. Immediate notification will allow for quick response to maximize system runtime. An air sample will also be collected in the fourth quarter and analyzed for BTEX and TVPH.



If you have any questions or comments regarding this work plan, do not hesitate to contact Mitch Killough at (713) 757-5247 or at mkillough@hilcorp.com.

Kind regards,

A handwritten signature in black ink, appearing to read 'Stuart Hyde'.

Stuart Hyde, L.G.
Environmental Geologist

A handwritten signature in black ink, appearing to read 'Ashley L. Ager'.

Ashley Ager, M.S., P.G.
Senior Geologist

Enclosures:

Table 1 – Air Sample Results Summary

Table 2 – Soil Vapor Extraction System Recovery & Emissions Summary

Enclosure A – Analytical Laboratory Reports

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

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

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

Incident ID	NCS 1729355513
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Hilcorp Energy Company	OGRID 372171
Contact Name Jennifer Deal	Contact Telephone 505-801-6517
Contact email jdeal@hilcorp.com	Incident # NCS1729355513
Contact mailing address 382 Road 3100 Aztec, NM 87410	

Location of Release Source

Latitude 36.8324852 _____ Longitude -108.168396 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Bell Federal Gas Com B 1	Site Type Gas Well
Date Release Discovered September 15, 2017 (Historic)	API# (if applicable) 30-045-09772

Unit Letter	Section	Township	Range	County
A	11	30N	13W	San Juan

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 58 (Historic)	Volume Recovered (bbls) 0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

XTO (previous operator) discovered a bullet hole in the side of a condensate tank. The vandalized tank resulted in approx.. 58 bbls of condensate draining onto the ground and infiltrating into the subsurface. The release was contained within the bermed area and no liquids were recovered.

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

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

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

TABLES

TABLE 1
AIR SAMPLE ANALYTICAL RESULTS

BELL FEDERAL GAS COM B 1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Sample ID	Sample Date	Vapor (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Oxygen	Carbon Dioxide	TVPH (µg/L)
Bell Fed GC B#1 SVE	1/24/2018	1,435	280	200	<i>5.0</i>	38	--	--	30,000
Stack Exhaust 01	8/17/2018	1,873	160	380	21	320	--	--	18,000
SVE Effluent	3/22/2019	1,607	490	920	24	480	--	--	NA
Influent 6/18	6/18/2019	1,026	72	270	27	290	--	--	NA
Bell Fed 9/25	9/25/2019	1,762	220	480	21	440	--	--	35,000
Influent 12/16	12/16/2019	1,902	130	840	21	220	--	--	22,000
Bell Fed 3/10/20	3/10/2020	1,171	120	380	19	330	--	--	31,000
Influent 6/25	6/25/2020	978	180	430	25	480	--	--	45,000
SVE Air Sample	9/16/2020	1,766	186	433	18	497	18.20%	3.29%	32,100
SVE Q4 Air Sample	12/8/2020	1,741	114	292	10.6	323.8	17.30%	4.45%	16,000
SVE	3/23/2021	1,252	45.4	86.3	2.33	95.4	20.2%	<0.500%	7,930
Influent 6-10-21	6/10/2021	166	8.5	20	<i>0.50</i>	20	17.3%	2.21%	5,700
Influent 9-8-2021	9/8/2021	NM	130	240	5.9	150	--	--	33,000
Percent Change (compared to previous quarter)		---	1,429	1,100	1,080	650	NA	NA	479

Notes:

µg/L - micrograms per liter

NA - not analyzed

NM - not measured

ppm - parts per million

TVPH - total volatile petroleum hydrocarbons

Italics and gray denote that the laboratory method detection limit was used for calculations for a non-detected result

TABLE 2
SOIL VAPOR EXTRACTION SYSTEM RECOVERY & EMISSIONS SUMMARY

BELL FEDERAL GAS COM B 1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Sample Information and Lab Analysis

Date	Total Flow (cf)	Delta Flow (cf)	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH (µg/L)
1/24/2018	164,400	164,400	1,435	280	200	5.0	38	30,000
8/17/2018	5,240,130	5,075,730	1,873	160	380	21	320	18,000
3/22/2019	9,176,130	3,936,000	1,607	490	920	24	480	NA
6/18/2019	11,096,130	1,920,000	1,026	72	270	27	290	NA
9/25/2019	13,610,730	2,514,600	1,762	220	480	21	440	35,000
12/16/2019	15,513,450	1,902,720	1,902	130	840	21	220	22,000
3/10/2020	17,246,490	1,733,040	1,171	120	380	19	330	31,000
6/25/2020	19,123,950	1,877,460	978	180	430	25	480	45,000
9/16/2020	20,825,850	1,701,900	1,766	186	433	18	497	32,100
12/8/2020	22,050,570	1,224,720	1,741	114	292	10.6	324	16,000
3/23/2021	23,121,750	1,071,180	1,252	45.4	86.3	2.33	95.4	7,930
6/10/2021	23,514,780	393,030	166	8.5	20	0.50	20	5,700
9/8/2021	23,831,580	316,800	NM	130	240	5.9	150	33,000
Average			1,390	164	382	15	283	25,066

Vapor Extraction Calculations

Date	Flow Rate (cfm)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
1/24/2018	40	0.0419	0.0299	0.0007	0.0057	4.4921
8/17/2018	33	0.0072	0.0171	0.0009	0.0144	0.8086
3/22/2019	32	0.0293	0.0551	0.0014	0.0287	NA
6/18/2019	32	0.0043	0.0162	0.0016	0.0174	NA
9/25/2019	33	0.0115	0.0252	0.0011	0.0231	1.8343
12/16/2019	32	0.0078	0.0503	0.0013	0.0132	1.3177
3/10/2020	29	0.009	0.0284	0.0014	0.0247	2.3209
6/25/2020	29	0.0196	0.0467	0.0019	0.0359	3.369
9/16/2020	31	0.0216	0.0503	0.0021	0.0577	3.7273
12/8/2020	30	0.0128	0.0328	0.0012	0.0364	1.7979
3/23/2021	30	0.0051	0.0097	0.0003	0.0107	0.8911
6/10/2021	33	0.0011	0.0025	0.0001	0.0025	0.7046
9/8/2021	33	0.0161	0.0297	0.0007	0.0185	4.0791
Average	32	0.0144	0.0303	0.0011	0.0222	2.3039

Pounds Extracted Over Total Operating Time

Date	Total Operational Hours	Delta Hours	Benzene (lbs)	Toluene (lbs)	Ethylbenzene (lbs)	Total Xylenes (lbs)	TVPH (lbs)	TVPH (tons)
1/24/2018	69	69	2.9	2.1	0.1	0.4	308	0.15
8/17/2018	2,632	2,564	18.4	43.8	2.4	36.9	2,073	1.04
3/22/2019	4,682	2,050	60.2	112.9	2.9	58.9	NA	NA
6/18/2019	5,682	1,000	4.3	16.2	1.6	17.4	NA	NA
9/25/2019	6,952	1,270	14.6	31.9	1.4	29.3	2,330	1.17
12/16/2019	7,943	991	7.7	49.9	1.2	13.1	1,306	0.65
3/10/2020	8,939	996	8.9	28.3	1.4	24.6	2,312	1.16
6/25/2020	10,018	1,079	14.5	34.7	2.0	38.8	3,635	1.82
9/16/2020	10,933	915	19.8	46.0	1.9	52.8	3,411	1.71
12/8/2020	11,613	680	8.7	22.3	0.8	24.8	1,223	0.61
3/23/2021	12,209	595	3.0	5.8	0.2	6.4	530	0.27
6/10/2021	12,407	199	0.2	0.5	0.01	0.5	140	0.07
9/8/2021	12,567	160	2.6	4.7	0.12	3.0	653	0.33
Avg. Mass Extracted Per Period			12.8	30.7	1.2	23.6	1,629.1	0.8
Total Mass Extracted to Date			165.8	399.1	16.0	306.8	17,920.6	9.0

Notes:

cf - cubic feet
 cfm - cubic feet per minute
 lbs - pounds
 lb/hr - pounds per hour
 µg/L - micrograms per hour
 NA - not analyzed
 NM - not measured
 PID - photoionization detector
 ppm - parts per million
 TVPH - total volatile petroleum hydrocarbons

ENCLOSURE A – ANALYTICAL LABORATORY REPORTS



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

September 23, 2021

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

RE: Bell Federal

OrderNo.: 2109454

Dear Mitch Killough:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/9/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2109454

Date Reported: 9/23/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Influent 9-8-21

Project: Bell Federal

Collection Date: 9/8/2021 1:15:00 PM

Lab ID: 2109454-001

Matrix: AIR

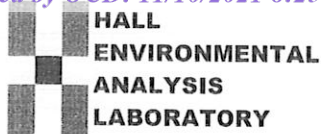
Received Date: 9/9/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	33000	250		µg/L	50	9/14/2021 10:06:56 AM
Surr: BFB	234	37.3-213	S	%Rec	50	9/14/2021 10:06:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	130	5.0		µg/L	50	9/14/2021 10:06:56 AM
Toluene	240	5.0		µg/L	50	9/14/2021 10:06:56 AM
Ethylbenzene	5.9	1.0		µg/L	10	9/14/2021 9:19:21 AM
Xylenes, Total	150	2.0		µg/L	10	9/14/2021 9:19:21 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	10	9/14/2021 9:19:21 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 1



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

Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2109454

RcptNo: 1

Received By: Cheyenne Cason 9/9/2021 7:20:00 AM

Completed By: Cheyenne Cason 9/9/2021 1:45:29 PM

Reviewed By: KPG 9/9/21

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: SPA 9.9.21

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Released to Imaging: 9/27/2022 8:32:42 AM

Hilcorp

Mitch Killough

Bell Federal

Project #:

email or Fax#: mki11ough@csf.com

Project Manager:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Stuart Hyde - WSP

Sampler: Eric Carroll

On Ice: ☒ Yes ☐ No

of Coolers: (

Cooler Temp (including CF): NA (°C)[illegible]Preservative
Type

HEAL No.

2109454

Caen

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Date:	Time:	Relinquished by:
9-8-21	14:23	Eric Carroll

Date:	Time:	Relinquished by:
9/8/21	1806	Christine Walter

Received by:	Via:	Date	Time
<i>Chris West</i>		<i>9/8/11</i>	<i>1423</i>

Received by:	Via:	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	9/9/21	0720

Remarks:

CC: eric.carroll@wsp.com

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

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

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

CONDITIONS

Action 61119

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 61119
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. See App ID 124694 for most updated status.	9/27/2022