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 Page 1 of 62

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

Incident ID	NAPP2331753209
District RP	
Facility ID	
Application ID	

I Release Notification

Responsible Party

Responsible Party Hilcorp Energy	OGRID 372171
Contact Name: Kate Kaufman	Contact Telephone: 346-237-2275
Contact email: kkaufman@hilcorp.com Incident # (assigned by OCD) nAPP2331753209	
Contact mailing address: 1111 Travis St. Houston, TX 77471	

Location of Release Source

Latitude 36.71249_

[NAD 83 in decimal degrees to 5 decimal places]

Site Name: Snyder Gas Com B #1M	Site Type: Well Site
Date Release Discovered: 10/6/2023	API# (if applicable) 30-045-31889

Unit Letter	Section	Township	Range	County
F	19	029N	009W	San Juan

Surface Owner: State Federal Tribal Private (Name: 4990 Road LLC_____)

Nature and Volume of Release

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

Volume Released (bbls)	Volume Recovered (bbls)	
Volume Released (bbls)	Volume Recovered (bbls)	
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
Volume Released (bbls) 14.7	Volume Recovered (bbls)14.7	
Volume Released (Mcf)	Volume Recovered (Mcf)	
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
	Volume Released (bbls) Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Volume Released (bbls) 14.7 Volume Released (Mcf)	

Cause of Release

Historical release discovered during the permanent removal of a below-grade tank (BGT). BGT closure sample results for TPH exceeded the closure criteria. Hilcorp conducted delineation operations and removed impacted soil to determine an estimated release volume. See attached closure summary.

Page	2

Oil Conservation Division

Incident ID	NAPP2331753209
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why:

This is a historic release and there was no active source at the time of discovery.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:Kate Kaufman	Title:Environmental Specialist
Signature: Kathyrutkaufm-	Date:11/27/2023
email: kkaufman@hilcorp.com	Telephone:346-237-2275
OCD Only	
Received by: <u>Shelly Wells</u>	Date: <u>11/28/2023</u>

Received by OCD: 11/28/2023 12:00:16 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 3 of 6	62
Incident ID	NAPP2331753209	
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?	$\frac{<50^{\circ}}{\text{hgs}}$ (ft
Did this release impact groundwater or surface water?	bgs)
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🕅 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying a subsurface mine?	
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No
Are the lateral extents of the release within a 100-year floodplain?	Yes No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ 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
- \boxtimes 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.

	Page 4 of 62
Incident ID	NAPP2331753209
District RP	
Facility ID	
Application ID	
ve the operator of liability s surface water, human healt compliance with any other f ental Specialist	leases which may endanger hould their operations have th or the environment. In cederal, state, or local laws
1/28/2023	
	District RP Facility ID Application ID dge and understand that pur rm corrective actions for re ve the operator of liability s surface water, human healt compliance with any other f

Received by OCD: 11/28/2023 12:00:16 AM Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

Page 5 of 62

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Clara Cardoza Title: Environmental Specialist Signature: Date: <u>7/15/2019</u> email: ccardoza@hilcorp.com_____ Telephone: <u>505.564.0733</u> OCD Only Received by: Date: Denied Deferral Approved Approved Approved with Attached Conditions of Approval Signature: Date:

Page 5

Page 6

Oil Conservation Division

	Page 6 of	<i>62</i>
Incident ID	NAPP2331753209	
District RP		
Facility ID		
Application ID		

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following in	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O Printed Name: _Kathryn H. Kaufman	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in PCD when reclamation and re-vegetation are complete. Title: _Environmental Specialist
Signature: Date: 11/27/2	023
email: kkaufman@hilcorp.com	Telephone: _346-237-2275
OCD Only	
Received by: <u>Shelly Wells</u>	Date: <u>11/28/2023</u>
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Nelson Velez	Date: 02/21/2024
Closure Approved by: Nelson Velez Printed Name: Nelson Velez	Environmental Specialist – Adv

Executive Summary – Incident #nAPP2331753209

Hilcorp removed a below ground tank (BGT) at the Snyder Gas Com B #1M wellsite (API 30-045-31889) on October 5, 2023. The closure sample results were above the BGT permit closure limits and above the NMOCD action criteria in NMAC 19.15.29 Table 1 for total petroleum hydrocarbons (TPH).

Five-point composite samples were collected on 10/5, 10/25, 11/2 and 11/9 to delineate the extent of impacts, removing potentially impacted soil between sampling events. Sample results are included at the end of this summary report. While delineating impacts, Hilcorp removed approximately 15 yds³ of clean and potentially impacted soil from the excavation. Impacted material was hauled offsite for disposal.

Final analytical results from these sampling events were below NMOCD action criteria noted in NMAC 19.15.29 Table 1. The historic hydrocarbon release volume was estimated to be approximately 14.7 bbls. The release volume estimate is attached.

Scaled Site Map

Lat: 36.71249 Long: -107.823695 Snyder Gas Com B #1M Wellsite API: 30-045-31889



Historic Release Area



Ν

Estimated depth to groundwater at the Snyder Gas Com B #1M wellsite is < 50'. Siting criteria is noted below for the Snyder Gas Com B #1N wellsite which is approximately 0.2 miles south of the subject wellsite.

Lodestar Service 70 Bas 4465, Damag	es, Inc. 9, 00 81302	Pit Permit Siting Criteria Information Sheet	Client: Project: Revised: Prepared by:	XTO Energy Pit Permits 21-Nov-08 Brooke Herb
API#:[3004534290	USPLSS:	T29N,R09W,S19K
Name:	SNYD	ER GAS COM B #1N	Lat/Long:	36.70924, -107.82308
Depth to groundwater:		< 50'	Geologic formation:	Nacimiento Formation
Distance to closest continuously flowing watercourse:	1804'	' S of San Juan River		
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	San Jua Hammono	f secondary tributary of an Rivaer; 495' NW of d Irrigation Ditch; 2059' Largo Canyon Wash		
Permanent residence, school, hospital, institution or church within 300'		No	Soil Type:	Entisols
			Annual	8.71 inches (Bloomfield)
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	no significant precip events
Any other fresh water well or spring within 1000'		No		
Within incorporated municipal boundaries		No	Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map
Within defined municipal fresh water well field	Within defined nicipal fresh water No			Aerial Photo, Topo Map, Mines Mills and Quarries Map
Wetland within 500'		No	Mining Activity:	
Within unstable area		No		3677' N of a Materials Pit
Within 100 year flood	Yes- F	EMA Flood Zone 'A'		

Received by OCD: 11/28/2023 12:00:16 AM

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





▼ POD Waters

Note 1: Release point is within 300 ft of a continuously flowing watercourse or other significant water course. **Note 2:** The lateral extents of the release point are within 300 feet of a mapped wetland.

Released to Imaging: 2/21/2024 3:16:43 PM

Distance to mapped water wells.



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

Released to Imaging: 2/21/2024 3:16:43 PM

Data table of soil contaminant concentrations

		Snyder Gas Com B #1M Laboratory Results									
Sample Name	Sample Date	Chloride (mg/kg)	TPH as DRO (mg/kg)	TPH as GRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylene (mg/kg)	Total BTEX (mg/kg)
BGT Permit Closu	re Criteria < 50'	600	4	-	-	100	10	-	-	-	50
BGT Closure	10/05/23	ND	210	ND	940	1150	ND	ND	ND	ND	ND
TP01 8'	10/25/23	ND	22	ND	150	172	ND	ND	ND	ND	ND
TP01 9'	10/25/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP02 8'	10/25/23	ND	100	ND	ND	100	ND	ND	ND	ND	ND
TP02 9'	10/25/23	ND	82	ND	ND	82	ND	ND	ND	ND	ND
TP03 8'	10/25/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP03 9'	10/25/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP04 8'	10/25/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP04 9'	10/25/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FS01	11/02/23	ND	260	12	1700	1972	ND	ND	ND	ND	ND
FS 01 B	11/09/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Delineation samples were collected on 10/5, 10/25, 11/2 and 11/9 by Ensolum. Samples collected on 10/25 and 11/2 were to delineate the extent of the release. Potentially impacted material was removed between sampling events for disposal. The final sample FS-01B collected on 11/9/2023 was below NMOCD 19.15.29.12.D Table 1 closure criteria. FS-01B was a five-point composite incorporating the base and shallow sidewalls. See notes on next page.

Field Sample Diagram



Delineation samples were collected on 10/5, 10/25, 11/2 and 11/9 by Ensolum. Samples collected on 10/25 and 11/2 were to delineate the extent of the release within and around the BGT excavation. Potentially impacted material was removed between sampling events for disposal. The final sample FS-01B collected on 11/9/2023 was below NMOCD 19.15.29.12.D Table 1 closure criteria. TP-01 is a floor sample.

Total excavation area was approximately 160 sq. ft. and 1-2' deep. Due to the shallow nature of the excavation, sidewalls were incorporated into the base composite sample.

Sample Photos





Sample Photos



Ν

Topographic Map



Released to Imaging: 2/21/2024 3:16:43 PM

ESTIMATED RELEASE VOLUME TOOL SNYDER GC B 1M HILCORP ENERGY COMPANY

This tool estimates a release volume based on the size and concentration of a dry excavation.

Instructions: Input the excavation parameters (dimensions) in red text, and the spreadsheet calculates a potential spill volume. Other parameters can be changed as appropriate.

Tool Inputs					
Soil Density	99.88473696 lbs/ft*	1			
Crude Oil Density	7.093593783 lbs/gal				

Excavation Parameters						
Average Hydrocarbon Concentration	1098.00 mg/kg					
Length	10 ft					
Width	16 ft					
Depth	2.5 ft					
Expansion Factor	0 %					
Total Soil Volume	15 yds3					

Choose the appropriate column for the released product

	Crude Oil/Condensate	Produced Water
Hydrocarbon Concentration	1 %	99 %
(Percent)	1 / 4	22.10

CALCULATED SPILL VOLUME

Hydrocarbon Mass	44 Ibs	44 Ibs
Hydrocarbon	618 gal	6 gal
(Release) Volume	14.7 bbls	0 bbls

lbs - pounds

Notes

% - percent	
bbls - barrels	

ft - feet gal -gallons

mg - milligrams kg - kilograms yd - yard

Red values are variable and can be changed according to site specific information.

Analytical Data, Samples Collected 10/5, 10/25, 11/2 and 11/9.

See attached Lab Reports.



October 18, 2023

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Snyder GC B 1M

OrderNo.: 2310330

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/6/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Snyder GC B 1M

Project:

Analytical Report Lab Order 2310330

Date Reported: 10/18/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Bottom Comp 7' Collection Date: 10/5/2023 11:10:00 AM **Received Date:** 10/6/2023 7:35:00 AM

Lab ID: 2310330-001	Matrix:	R	leceive	023 7:35:00 AM		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	210	94		mg/Kg	10	10/11/2023 7:55:41 PM
Motor Oil Range Organics (MRO)	940	470		mg/Kg	10	10/11/2023 7:55:41 PM
Surr: DNOP	0	69-147	S	%Rec	10	10/11/2023 7:55:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/12/2023 4:13:45 AM
Surr: BFB	93.1	15-244		%Rec	1	10/12/2023 4:13:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/12/2023 4:13:45 AM
Toluene	ND	0.050		mg/Kg	1	10/12/2023 4:13:45 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/12/2023 4:13:45 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/12/2023 4:13:45 AM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	10/12/2023 4:13:45 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	10/12/2023 4:52:55 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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Client: Project:		RP ENERGY GC B 1M								
Sample ID:	MB-78118 SampType: MBLK TestCode: EPA Method 300.0: Anions									
Client ID:	PBS	Batch ID: 78	118	F	RunNo: 10	0419				
Prep Date:	10/12/2023	Analysis Date: 10)/12/2023	S	SeqNo: 36	79538	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-78118	SampType: LC	S	Tes	tCode: EP	A Method	300.0: Anions	5		
Client ID:	LCSS	Batch ID: 78	118	F	RunNo: 10	0419				
Prep Date:	10/12/2023	Analysis Date: 10)/12/2023	S	SeqNo: 36	79539	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	91.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 21 of 62

Client:

Project:

Client ID:

Prep Date:

Surr: DNOP

Client ID:

Prep Date:

Surr: DNOP

Analyte

Analyte

Sample ID: MB-78080

Sample ID: LCS-78080

LCSS

PBS

10/11/2023

10/11/2023

QC SUMMARY REPORT Hall Environmental Analysis La

ND

50

HILCORP ENERGY

Snyder GC B 1M

REP I Anal		aborato	rv Inc					WO#:	2310330
	y 515 L		1 y, 11k.						18-Oct-23
P ENERC	GΥ								
C B 1M									
Samp	Туре: М	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Bato	ch ID: 78	080	F	RunNo: 1(00396				
Analysis	Date: 1	0/11/2023	S	SeqNo: 36	677210	Units: %Rec	;		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
11		10.00		115	69	147			
Samp	Type: LC	cs	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Bato	ch ID: 78	080	F	RunNo: 1(00396				
Analysis	Date: 1	0/11/2023	S	SeqNo: 36	677211	Units: %Rec	;		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
5.0		5.000		100	69	147			
Samp	Type: M	BLK	Tes	tCode: F	A Method	8015M/D: Die	sel Range	Organics	

Sample ID: MB-78083	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 78083	RunNo: 100396				
Prep Date: 10/11/2023	Analysis Date: 10/11/2023	SeqNo: 3677212 Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Surr: DNOP	12 10.00	116 69 147				
Sample ID: LCS-78083	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch ID: 78083	RunNo: 100396				
Prep Date: 10/11/2023	Analysis Date: 10/11/2023	SeqNo: 3677213 Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Surr: DNOP	5.0 5.000	99.4 69 147				
Sample ID: MB-78093	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 78093	RunNo: 100396				
Prep Date: 10/11/2023	Analysis Date: 10/11/2023	SeqNo: 3677886 Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Diesel Range Organics (DRO)	ND 10					

Surr: DNOP	10		10.00		101	69	147			
Sample ID: LCS-78093 SampType: LCS				Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	n ID: 780	93	F	RunNo: 1(00396				
Prep Date: 10/11/2023	Analysis D	ate: 10	/11/2023	5	SeqNo: 36	677887	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	61.9	130			
Surr: DNOP	4.7		5.000		93.4	69	147			

Qualifiers:

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

Motor Oil Range Organics (MRO)

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	RP ENERGY GC B 1M									
Sample ID: Ics-78066	SampType	e: LCS	5	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch ID): 780	66	F	RunNo: 1(00376				
Prep Date: 10/10/2023	Analysis Date	e: 10/	/11/2023	S	SeqNo: 36	677483	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	70	130			
Surr: BFB	2000		1000		200	15	244			
Sample ID: mb-78066	SampType	e: MB	LK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch ID): 780	66	F	RunNo: 1(00376				
Prep Date: 10/10/2023	Analysis Date	e: 10/	/11/2023	S	SeqNo: 36	677484	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.1	15	244			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 23 of 62

WO#: 2310330 18-Oct-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	CORP ENERG der GC B 1M	Υ								
Sample ID: LCS-78066	Samp	Туре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: 78()66	F	RunNo: 1(00376				
Prep Date: 10/10/2023	Analysis I	Date: 10	/11/2023	S	SeqNo: 36	677563	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	1.0	0.050	1.000	0	104	70	130			
Ethylbenzene	1.0	0.050	1.000	0	105	70	130			
Xylenes, Total	3.2	0.10	3.000	0	105	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	39.1	146			
Sample ID: mb-78066	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 78(066	F	RunNo: 1(00376				
Prep Date: 10/10/2023	Analysis I	Date: 10	/11/2023	Ş	SeqNo: 36	677564	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	39.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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
- 5 % Recovery outside of standard minus. If undifficient results may be estimated.

Page 24 of 62

WO#: 2310330 18-Oct-23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	4901 Hawki uquerque, NM FAX: 505-345	ns NE 87109 Sam -4107	Sample Log-In Check List				
Client Name: HILCORP ENER	GY Work Order Number	2310330		RcptNo	: 1			
Received By: Juan Rojas	10/6/2023 7:35:00 AM		Marriag					
Completed By: Chevenne Case			(lend					
Reviewed By: 10-6-2			Guic					
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 th	e samples?	Yes 🗹	No 🗌	NA 🗌				
4. Were all samples received at a t	emperature of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆				
5. Sample(s) in proper container(s)?	Yes 🔽	No 🗌					
6. Sufficient sample volume for ind	icated test(s)?	Yes 🗹	No 🗌					
7. Are samples (except VOA and C	NG) properly preserved?	Yes 🗹	No 🗍					
8. Was preservative added to bottle	es?	Yes 🗌	No 🗹	NA 🗌				
9. Received at least 1 vial with hea	dspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹				
10. Were any sample containers re-	ceived broken?	Yes 🗌	No 🗹	# of preserved bottles checked				
11. Does paperwork match bottle la (Note discrepancies on chain of		Yes 🗹	No 🗌	for pH: (<2 c	or >12 unless noted)			
12. Are matrices correctly identified	on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?				
13. Is it clear what analyses were re	quested?	Yes 🗹	No 🗌		Junial to-			
14. Were all holding times able to b (If no, notify customer for author		Yes 🗹	No 📙	Checked by:	-10101612			
Special Handling (if applica	<u>ble)</u>							
15. Was client notified of all discrep	pancies with this order?	Yes 🗌	No 🗌	NA 🗹				
Person Notified: By Whom: Regarding: Client Instructions:	Date: Date: Via:	_] eMail	Phone [] Fax	In Person				
16. Additional remarks:				-1011 - 1012 G-				
17. Cooler Information		Seal Date	Signed By					

Released to Imaging: 2/21/2024 3:16:43 PM

Page 25 of 62

HALLENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	C C		Remarks:	10-5 185 W. Kind Date: Time: Relinquished by: Received by: Via: Date Time 1951 750 AM M. M. Received by: Via: Date Time 1951 750 AM M. M. Received by: Via: Date Time 1965 7:33
Turn-Around Time: Standard Co Project Name: Project #:	Fman don Sinclair Yes DNO Minger: Cate, 109 iservative HEAL NO. De 2310330		Received by: Via/ Date Time	Received by: Via: Date Time Received by: Via: Date Time COV/E ICC/333.3
Client: H ; $ c_{orp}$ Mailing Address:	email or Fax#: <i>br a do h S i h co h i l erp</i> . <i>co m</i> Project Manager QA/QC Package: Standard Level 4 (Full Validation) <i>k</i> + <i>e k a y</i> Accreditation: Accreditation:	2011		10-5 185 4 4 Lind Date: Time: Relinquished by: 10/5/23 7756 / M L M L C

Received by OCD: 11/28/2023 12:00:16 AM



Environment Testing

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

November 06, 2023

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

RE: Snyder GC B 1M

OrderNo.: 2310C90

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 10/27/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Snyder GC B 1M

2310C90-001

Project:

Lab ID:

Analytical Report Lab Order 2310C90

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/6/2023

Client Sample ID: TP01@8' Collection Date: 10/25/2023 9:10:00 AM Received Date: 10/27/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	22	9.2	mg/Kg	1	10/27/2023 7:43:02 PM
Motor Oil Range Organics (MRO)	150	46	mg/Kg	1	10/27/2023 7:43:02 PM
Surr: DNOP	104	69-147	%Rec	1	10/27/2023 7:43:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 11:08:54 AM
Surr: BFB	92.4	15-244	%Rec	1	10/30/2023 11:08:54 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/30/2023 11:08:54 AM
Toluene	ND	0.048	mg/Kg	1	10/30/2023 11:08:54 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 11:08:54 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/30/2023 11:08:54 AM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/30/2023 11:08:54 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/27/2023 5:01:47 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Analytical Report Lab Order 2310C90

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/6/2023
Client Sample ID: TP01@9'

Project: Snyder GC	C B 1M	Collection Date: 10/25/2023 9:15:00 AM						
Lab ID: 2310C90-0	002 N	Aatrix: SOIL	Recei	10/27/	2023 7:30:00 AM			
Analyses		Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015	M/D: DIESEL RANGE O	RGANICS				Analyst: PRD		
Diesel Range Organics	s (DRO)	ND	9.7	mg/Kg	1	10/27/2023 8:24:10 PM		
Motor Oil Range Organ	nics (MRO)	ND	48	mg/Kg	1	10/27/2023 8:24:10 PM		
Surr: DNOP		113	69-147	%Rec	1	10/27/2023 8:24:10 PM		
EPA METHOD 8015	D: GASOLINE RANGE					Analyst: JJP		
Gasoline Range Organ	ics (GRO)	ND	4.9	mg/Kg	1	10/30/2023 11:32:23 AM		
Surr: BFB		95.7	15-244	%Rec	1	10/30/2023 11:32:23 AM		
EPA METHOD 8021	B: VOLATILES					Analyst: JJP		
Benzene		ND	0.025	mg/Kg	1	10/30/2023 11:32:23 AM		
Toluene		ND	0.049	mg/Kg	1	10/30/2023 11:32:23 AM		
Ethylbenzene		ND	0.049	mg/Kg	1	10/30/2023 11:32:23 AM		
Xylenes, Total		ND	0.098	mg/Kg	1	10/30/2023 11:32:23 AM		
Surr: 4-Bromofluorot	benzene	100	39.1-146	%Rec	1	10/30/2023 11:32:23 AM		
EPA METHOD 300.0	: ANIONS					Analyst: JTT		
Chloride		ND	60	mg/Kg	20	10/27/2023 5:14:08 PM		

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceed.

- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical 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

*

Snyder GC B 1M

2310C90-003

Project:

Lab ID:

Analytical Report Lab Order 2310C90

Hall Environmental Analysis Laboratory, Inc	Hall	Environmental	Analysis	Laboratory.	Inc
---	------	----------------------	----------	-------------	-----

Date Reported: 11/6/2023

Client Sample ID: TP02@8' Collection Date: 10/25/2023 9:40:00 AM Received Date: 10/27/2023 7:30:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/27/2023 8:35:00 PM
Motor Oil Range Organics (MRO)	100	49	mg/Kg	1	10/27/2023 8:35:00 PM
Surr: DNOP	124	69-147	%Rec	1	10/27/2023 8:35:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/30/2023 11:55:47 AM
Surr: BFB	94.0	15-244	%Rec	1	10/30/2023 11:55:47 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/30/2023 11:55:47 AM
Toluene	ND	0.049	mg/Kg	1	10/30/2023 11:55:47 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/30/2023 11:55:47 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/30/2023 11:55:47 AM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	10/30/2023 11:55:47 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/27/2023 5:26:29 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Snyder GC B 1M

Project:

Analytical Report Lab Order 2310C90

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/6/2023

Client Sample ID: TP02@9' Collection Date: 10/25/2023 9:45:00 AM Received Date: 10/27/2023 7:30:00 AM

Lab ID: 2310C90-004	Matrix: SOIL	Rec	Received Date: 10/27/2023 7:30:00 AM						
Analyses	Result	RL Q	ual Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/30/2023 4:01:59 PM				
Motor Oil Range Organics (MRO)	82	46	mg/Kg	1	10/30/2023 4:01:59 PM				
Surr: DNOP	113	69-147	%Rec	1	10/30/2023 4:01:59 PM				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: JJP				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 12:19:19 PM				
Surr: BFB	92.5	15-244	%Rec	1	10/30/2023 12:19:19 PM				
EPA METHOD 8021B: VOLATILES					Analyst: JJP				
Benzene	ND	0.024	mg/Kg	1	10/30/2023 12:19:19 PM				
Toluene	ND	0.048	mg/Kg	1	10/30/2023 12:19:19 PM				
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 12:19:19 PM				
Xylenes, Total	ND	0.096	mg/Kg	1	10/30/2023 12:19:19 PM				
Surr: 4-Bromofluorobenzene	99.7	39.1-146	%Rec	1	10/30/2023 12:19:19 PM				
EPA METHOD 300.0: ANIONS					Analyst: JTT				
Chloride	ND	60	mg/Kg	20	10/27/2023 5:38:50 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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Snyder GC B 1M

Project:

Analytical Report Lab Order 2310C90

Date Reported: 11/6/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TP03@8' Collection Date: 10/25/2023 10:15:00 AM

Lab ID: 2310C90-005	Matrix: SOIL	Received Date: 10/27/2023 7:30:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analyst: PRD		
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	10/27/2023 8:56:37 PM		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/27/2023 8:56:37 PM		
Surr: DNOP	110	69-147	%Rec	1	10/27/2023 8:56:37 PM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: JJP		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/30/2023 12:42:48 PM		
Surr: BFB	96.1	15-244	%Rec	1	10/30/2023 12:42:48 PM		
EPA METHOD 8021B: VOLATILES					Analyst: JJP		
Benzene	ND	0.023	mg/Kg	1	10/30/2023 12:42:48 PM		
Toluene	ND	0.047	mg/Kg	1	10/30/2023 12:42:48 PM		
Ethylbenzene	ND	0.047	mg/Kg	1	10/30/2023 12:42:48 PM		
Xylenes, Total	ND	0.093	mg/Kg	1	10/30/2023 12:42:48 PM		
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	10/30/2023 12:42:48 PM		
EPA METHOD 300.0: ANIONS					Analyst: JTT		
Chloride	ND	59	mg/Kg	20	10/27/2023 5:51:11 PM		

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Snyder GC B 1M

2310C90-006

Project:

Lab ID:

Analytical Report Lab Order 2310C90

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/6/2023

Client Sample ID: TP03@9' Collection Date: 10/25/2023 10:20:00 AM Received Date: 10/27/2023 7:30:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/27/2023 9:07:26 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2023 9:07:26 PM
Surr: DNOP	98.1	69-147	%Rec	1	10/27/2023 9:07:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/30/2023 1:06:13 PM
Surr: BFB	95.3	15-244	%Rec	1	10/30/2023 1:06:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	10/30/2023 1:06:13 PM
Toluene	ND	0.046	mg/Kg	1	10/30/2023 1:06:13 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/30/2023 1:06:13 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/30/2023 1:06:13 PM
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	10/30/2023 1:06:13 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	10/28/2023 12:36:38 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Snyder GC B 1M

2310C90-007

Project:

Lab ID:

Analytical Report Lab Order 2310C90

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/6/2023

Client Sample ID: TP04@8' Collection Date: 10/25/2023 10:40:00 AM Received Date: 10/27/2023 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/27/2023 9:18:16 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2023 9:18:16 PM
Surr: DNOP	104	69-147	%Rec	1	10/27/2023 9:18:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/30/2023 1:29:37 PM
Surr: BFB	94.0	15-244	%Rec	1	10/30/2023 1:29:37 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/30/2023 1:29:37 PM
Toluene	ND	0.047	mg/Kg	1	10/30/2023 1:29:37 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/30/2023 1:29:37 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/30/2023 1:29:37 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	10/30/2023 1:29:37 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	10/28/2023 12:49:02 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Snyder GC B 1M

2310C90-008

Project:

Lab ID:

Analytical Report Lab Order 2310C90

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/6/2023

Client Sample ID: TP04@9' Collection Date: 10/25/2023 10:43:00 AM Received Date: 10/27/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/27/2023 9:29:06 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2023 9:29:06 PM
Surr: DNOP	102	69-147	%Rec	1	10/27/2023 9:29:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/30/2023 1:53:01 PM
Surr: BFB	94.4	15-244	%Rec	1	10/30/2023 1:53:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	10/30/2023 1:53:01 PM
Toluene	ND	0.047	mg/Kg	1	10/30/2023 1:53:01 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/30/2023 1:53:01 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/30/2023 1:53:01 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	10/30/2023 1:53:01 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	10/28/2023 1:01:26 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Client: Project:		DRP ENERGY r GC B 1M					
Sample ID:	MB-78426	26 SampType: MBLK TestCode: EPA Meth			300.0: Anions		
Client ID:	PBS	Batch ID: 78426		RunNo: 100786			
Prep Date:	10/27/2023	Analysis Date: 10/27/2	2023	SeqNo: 3697349	Units: mg/Kg		
Analyte		Result PQL SP	K value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		ND 1.5					
Sample ID:	LCS-78426	SampType: LCS	SampType: LCS TestCode: EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID: 78426		RunNo: 100786			
Prep Date:	10/27/2023	Analysis Date: 10/27/2	2023	SeqNo: 3697350	Units: mg/Kg		
Analyte		Result PQL SP	K value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		14 1.5	15.00 0	91.3 90	110		

Qualifiers:

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

- PQL Practical Quanitative Limit

Released to Imaging: 2/21/2024 3:16:43 PM

WO#: 2310C90 06-Nov-23
	RP ENERG GC B 1M	Y								
Sample ID: LCS-78420	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 78 4	420	F	RunNo: 1(0779				
Prep Date: 10/27/2023	Analysis D)ate: 10	/27/2023	S	SeqNo: 36	697664	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	91.0	61.9	130			
Surr: DNOP	5.9		5.000		118	69	147			
Sample ID: MB-78420	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 784	420	F	RunNo: 1(00779				
Prep Date: 10/27/2023	Analysis D)ate: 10	/27/2023	S	SeqNo: 36	697666	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Notor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 37 of 62

WO#: 2310C90 06-Nov-23

	RP ENERG` GC B 1M	Y								
Sample ID: Ics-78414	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	1	
Client ID: LCSS	Batch	n ID: 78 4	14	F	RunNo: 1(00815				
Prep Date: 10/27/2023	Analysis D	ate: 10	/30/2023	5	SeqNo: 36	698447	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.9	70	130			
Surr: BFB	1900		1000		188	15	244			
Sample ID: mb-78414	SampT	уре: МЕ	LK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	1	
Client ID: PBS	Batch	n ID: 78 4	14	F	RunNo: 10	00815				
Prep Date: 10/27/2023	Analysis D	ate: 10	/30/2023	S	SeqNo: 36	698671	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.4	15	244			

Qualifiers:

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

WO#:	2310C90
	06-Nov-23

.

Client: Project:	HILCORP Snyder GO		Y								
Sample ID: LCS-	LCS-78414 SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID: LCS	3	Batc	h ID: 78 4	14	F	RunNo: 100815					
Prep Date: 10/2	27/2023	Analysis [Date: 10	/30/2023	S	SeqNo: 36	698449	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.025	1.000	0	91.2	70	130			
Toluene		0.93	0.050	1.000	0	93.1	70	130			
Ethylbenzene		0.94	0.050	1.000	0	94.2	70	130			
Xylenes, Total		2.8	0.10	3.000	0	94.2	70	130			
Surr: 4-Bromofluoro	benzene	1.0		1.000		101	39.1	146			
Sample ID: mb-7	8414	Samp	Гуре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS		Batc	h ID: 78 4	14	F	RunNo: 1(00815				
Prep Date: 10/2	27/2023	Analysis [Date: 10	/30/2023	S	SeqNo: 36	698674	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bromofluoro	benzene	1.0		1.000		101	39.1	146			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- S

Released to Imaging: 2/21/2024 3:16:43 PM

- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2310C90

06-Nov-23

WO#:

.

- ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.

HALL ENVIRONMENTA ANALYSIS LABORATORY	AL.	TEL: 5	Al 05-345-397	al Analysis Labo 4901 Hawk buquerque. NM 75 FAX: 505-34, hallenvironment	ins NE 87109 5-4107	Sam	nple Log-In Check List	
Client Name: HILCORP E	ENERGY		der Numbe	er: 2310C90			RcptNo: 1	
Received By: Cheyenne	Cason	10/27/2023	3 7:30:00 <i>F</i>	٩M	Ch	and Do		
Completed By: Desiree Do Reviewed By: SCM	ominguez 10/26/73	10/27/2023	3 8:28:42 <i>F</i>	ЪМ	T	D-2		
Chain of Custody				_				
1. Is Chain of Custody compl	lete?			Yes 🛄	i	No 🗹	Not Present	
2. How was the sample delive	ered?			Courier				
Log In 3. Was an attempt made to c	ool the samples	?		Yes 🔽	I	No 🗌	NA 🗌	
4. Were all samples received	at a temperature	e of >0°C to (6.0°C	Yes 🗹	i	No 🗌	NA 🗌	
5. Sample(s) in proper contai	iner(s)?			Yes 🗹	I	No 🗌		
6. Sufficient sample volume for	or indicated test(s)?		Yes 🗹	1	No 🗌		
7. Are samples (except VOA	and ONG) prope	rly preserved?	•	Yes 🗹	1	No 🗌		
8. Was preservative added to	bottles?			Yes 🗌	١	No 🔽	NA 🗌	
9. Received at least 1 vial with	h headspace <1/	4" for AQ VO	٨?	Yes 🗌	۲	No 🗌	NA 🗹	
10. Were any sample containe	ers received brok	en?		Yes 🗌	1	No 🗹	# of preserved	
11. Does paperwork match bot (Note discrepancies on cha				Yes 🗹	r	No 🗌	bottles checked for pH: (<2 or >12 unless noted)	
12. Are matrices correctly iden	tified on Chain o	f Custody?		Yes 🗹	1	No 🗌	Adjusted?	
13. Is it clear what analyses we	ere requested?			Yes 🗹	1	No 🗌	Josh-	_
14. Were all holding times able (If no, notify customer for a				Yes 🗹	I	₩0 □	Checked by: -12 10 2712	}
Special Handling (if app	olicable)						-	
15. Was client notified of all di	iscrepancies with	n this order?		Yes 🗌		No 🗌	NA 🗹	
Person Notified:		e satiscer a scar d'	Date:			Ψ.		
By Whom:	r		Via:	eMail	Phone	🗌 Fax	In Person	
Regarding:								2
Client Instructions:	}				in sold. Sold in a	al a sur te mini a je		16.4
16. Additional remarks:								
Client requested 24	hour rush upon	arrivalDAD 1	0/27/23					
17. Cooler Information					C .			
Cooler No Temp °C 1 4.2			Seal No	Seal Date	Sign	ed By		
1 4.2 2 2.4			orty orty					-
			,				3	

Page 40 of 62

-
-
N
5
~
-
÷.
ġ.
0
•••
2
-
. '
\sim
Ci.
0
$\tilde{\sim}$
1
\sim
2
\sim
-
-
-
C.
~
Õ
\sim
5
0
0
2
- 5
0
5
6
~

Received by OCD: 11/28/2023 12:00:16 AM		Page 41 of 62
Chain-of-Custody Record	Turn-Around Time:	
Client: If il corp	A Standard D Rush Remarks	
Kate Kaufman		www.hallenvironmental.com
	Sunder GC S# 1M	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	
Phone #:		/sis Requ
email or Fax#: Klauturen @ hilcorp	Ľ	POS S S
QA/QC Package:	Street My de Censolum	3's (80'
□ Az Con	Sampler: Al Thom Son	10 / 05 2808/ 204.1) 201 827 201 201 201 201 201 201 201 201 201 201
DINELAC DOther	7.4	(GR0 310 (310 (3
	(Including CF): 2.6-0.222.4 (°	defi estic Meth 8 Mc 8 Mc 8 Mc 8 Mc 8 Mc 8 Mc
	Container Preservative	9081 P 3260 (/ 3260 (
Time Matrix Sa	# I ype	
10/25 0710 50,1 TPOI CS	100- 1001 201	
1 0915 r 7001 0 7'	- COO-	X X X
	- 003	
	- 004	X × X
,	- 005	XX
	, 004	××
	1-00-	
7964 6	~ 005	
	>	
Date: Time: Relinguished by:	Repeatived by: Via: June Time Time 1245	/5-Remarks: Per Kate Kaufman update TAT to 24hrsDaD 10/27/32
Date: Time: Relinquished by:	Received by: Via: Date Time	Ŷ
they a server a long hand	mr cam 10/21/23 0730	2
1	other secredited taboratories	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 22242024 3:16:43 PM

Andy Freeman

From:	Kate Kaufman <kkaufman@hilcorp.com></kkaufman@hilcorp.com>
Sent:	Thursday, October 26, 2023 2:54 PM
То:	Andy Freeman; Stuart Hyde
Subject:	Samples for the Snyder GC B #1M

High

Good afternoon Andy –

Importance:

Ensolum submitted samples for the Snyder Gas Com B #1M yesterday (maybe arriving today). They were on a standard TAT. Can I request a rush TAT for those samples?

Please confirm and let me know if you have any questions.

Thanks! Kate

Kate Kaufman | Senior Environmental Specialist | Hilcorp Energy Company O: 346-237-2275 | C: 907-244-8292 | <u>kkaufman@hilcorp.com</u> 1111 Travis St. | Houston | TX | 77002

The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

24hr per Andy 203 10/27/23



Environment Testing

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

November 13, 2023

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

RE: Snyder GC B1M

OrderNo.: 2311161

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 11/3/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2311161

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS01 **Project:** Snyder GC B1M Collection Date: 11/2/2023 11:20:00 AM Lab ID: 2311161-001 Matrix: SOIL Received Date: 11/3/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) 260 91 mg/Kg 10 11/3/2023 10:42:08 AM Motor Oil Range Organics (MRO) 1700 450 mg/Kg 10 11/3/2023 10:42:08 AM Surr: DNOP 0 69-147 S %Rec 10 11/3/2023 10:42:08 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) 12 11/3/2023 11:09:00 AM 3.0 mg/Kg 1 Surr: BFB 241 15-244 %Rec 1 11/3/2023 11:09:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 11/3/2023 11:09:00 AM 0.015 mg/Kg 1 Toluene ND 0.030 mg/Kg 1 11/3/2023 11:09:00 AM Ethylbenzene ND 0.030 mg/Kg 1 11/3/2023 11:09:00 AM Xylenes, Total 0.068 mg/Kg 11/3/2023 11:09:00 AM 0.061 1 Surr: 4-Bromofluorobenzene 110 39.1-146 %Rec 1 11/3/2023 11:09:00 AM **EPA METHOD 300.0: ANIONS** Analyst: KCB mg/Kg Chloride 11/3/2023 10:11:50 AM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit POL Practical Quanitative Limit
- S

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 1 of 6

Client: Project:		CORP ENERGY er GC B1M								
Sample ID:	MB-78551	SampType: M	BLK	Tes	tCode: EP	A Method	300.0: Anions	5		
Client ID:	PBS	Batch ID: 78	551	F	RunNo: 10	0947				
Prep Date:	11/3/2023	Analysis Date: 1	1/3/2023	S	SeqNo: 37	05446	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-78551	SampType: LC	s	Tes	tCode: EP	A Method	300.0: Anions	;		
Client ID:	LCSS	Batch ID: 78	551	F	RunNo: 10	0947				
Prep Date:	11/3/2023	Analysis Date: 1	1/3/2023	S	SeqNo: 37	05447	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	93.2	90	110			

Qualifiers:

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

2311161

13-Nov-23

WO#:

Page	46	of 62

WO	#: 2311161
	13-Nov-23

Client: H	LCORP ENERGY			
Project: Sr	yder GC B1M			
Sample ID: LCS-78534	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Orgar	nics
Client ID: LCSS	Batch ID: 78534	RunNo: 100940		
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704561	Units: %Rec	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Surr: DNOP	5.5 5.000) 111 69	147	
Sample ID: LCS-78548	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Orgar	nics
Client ID: LCSS	Batch ID: 78548	RunNo: 100940		
Prep Date: 11/3/2023	Analysis Date: 11/3/2023	SeqNo: 3704562	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Diesel Range Organics (DRC			130	
Surr: DNOP	5.6 5.000) 113 69	147	
Sample ID: MB-78534	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Orgar	nics
Client ID: PBS	Batch ID: 78534	RunNo: 100940		
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704563	Units: %Rec	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Surr: DNOP	9.0 10.00	90.0 69	147	
Sample ID: MB-78548	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Orgar	nics
Client ID: PBS	Batch ID: 78548	RunNo: 100940		
Prep Date: 11/3/2023	Analysis Date: 11/3/2023	SeqNo: 3704564	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Diesel Range Organics (DRC				
Motor Oil Range Organics (M Surr: DNOP		00.0 00.0	4 4 7	
Sull. DNOP	9.9 10.00	98.8 69	147	
Sample ID: LCS-78541	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Orgar	nics
Client ID: LCSS	Batch ID: 78541	RunNo: 100940		
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3705011	Units: %Rec	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	DLimit Qual
Surr: DNOP	8.7 5.000) 174 69	147	S
Sample ID: LCS-78561	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Orgar	nics
Client ID: LCSS	Batch ID: 78561	RunNo: 100940		
Prep Date: 11/3/2023	Analysis Date: 11/4/2023	SeqNo: 3705013	Units: %Rec	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Surr: DNOP	5.5 5.000	111 69	147	

Qualifiers:

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

.

Client: Project:		CORP ENERGY ler GC B1M								
Sample ID:	MB-78541	SampType: MI	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch ID: 78	541	F	RunNo: 1(00940				
Prep Date:	11/2/2023	Analysis Date: 1	1/3/2023	5	SeqNo: 37	705015	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		14	10.00		140	69	147			
Sample ID:	MB-78561	SampType: MI	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch ID: 78	561	F	RunNo: 1(00940				
Prep Date:	11/3/2023	Analysis Date: 1	1/4/2023	S	SeqNo: 37	705017	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.1	10.00		91.2	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 4 of 6

2311161

13-Nov-23

WO#:

Client: Project:	HILCORI Snyder G		Y								
Sample ID: 2.5ug	gro Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	1	
Client ID: LCS	6	Batch	n ID: GS	100941	F	RunNo: 1(00941				
Prep Date:		Analysis D	Date: 11	/3/2023	S	SeqNo: 37	704570	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orgar	nics (GRO)	24	5.0	25.00	0	95.6	70	130			
Surr: BFB		2300		1000		232	15	244			
Sample ID: mb		SampT	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS		Batch	Batch ID: GS100941			RunNo: 10	00941				
Prep Date:		Analysis D	Date: 11	/3/2023	S	SeqNo: 37	704571	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orgar	nics (GRO)	ND	5.0								
Surr: BFB		1100		1000		105	15	244			
Sample ID: 2311	161-001ams	SampT	уре: МS	5	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: FS01		Batch	n ID: GS	100941	F	RunNo: 1(00941				
Prep Date:		Analysis D	Date: 11	/3/2023	S	SeqNo: 37	705067	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orgar	nics (GRO)	28	3.0	15.16	12.35	102	70	130			
Surr: BFB		2200		606.4		362	15	244			S
Sample ID: 2311	161-001amsd	SampT	уре: МS	SD	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	!	
Client ID: FS01		Batch	n ID: GS	100941	F	RunNo: 10	00941				

Prep Date: Analysis Date: 11/3		/3/2023	S	SeqNo: 37	705068	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	26	3.0	15.16	12.35	92.2	70	130	5.51	20			
Surr: BFB	2100		606.4		349	15	244	0	0	S		

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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2311161	WO#:	
13-Nov-23		

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

HILCORP ENERGY

Project: Snyder	GC B1M									
Sample ID: 100ng btex lcs	SampT	Гуре: LC :	s	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batcl	h ID: BS	100941	F	RunNo: 10	00941				
Prep Date:	Analysis E	Date: 11	/3/2023	S	SeqNo: 37	704573	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.8	70	130			
Toluene	0.86	0.050	1.000	0	85.9	70	130			
Ethylbenzene	0.88	0.050	1.000	0	88.0	70	130			
Xylenes, Total	2.6	0.10	3.000	0	87.5	70	130			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.6	39.1	146			
Sample ID: mb	SampT	Гуре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Batch	h ID: BS	100941	F	RunNo: 100941					
Prep Date:	Analysis E	Date: 11	/3/2023	5	SeqNo: 37	704574	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	39.1	146			
Sample ID: 2311161-001ams	s SampT	Гуре: МЅ	;	TestCode: EPA Method 8021B: Volatiles						
Client ID: FS01	Batch	h ID: BS	100941	RunNo: 100941						
Prep Date:	A solution for F	Joto: 44								
	Analysis E	Jale. 11	/3/2023	5	SeqNo: 37	705024	Units: mg/K	(g		
Analyte	Result	PQL	/3/2023 SPK value		SeqNo: 37 %REC	705024 LowLimit	Units: mg/K HighLimit	(g %RPD	RPDLimit	Qual
•	-	PQL 0.015			%REC 82.3	LowLimit 70	HighLimit 130	-	RPDLimit	Qual
Benzene	Result	PQL 0.015 0.030	SPK value	SPK Ref Val 0 0	%REC	LowLimit	HighLimit	-	RPDLimit	Qual
Benzene	Result 0.50 0.50 0.52	PQL 0.015 0.030 0.030	SPK value 0.6064	SPK Ref Val 0	%REC 82.3	LowLimit 70 70 70	HighLimit 130	-	RPDLimit	Qual
Benzene Toluene Ethylbenzene	Result 0.50 0.50 0.52 1.6	PQL 0.015 0.030	SPK value 0.6064 0.6064 0.6064 1.819	SPK Ref Val 0 0	%REC 82.3 82.1 84.9 83.7	LowLimit 70 70 70 70	HighLimit 130 130 130 130	-	RPDLimit	Qual
Benzene Foluene Ethylbenzene	Result 0.50 0.50 0.52	PQL 0.015 0.030 0.030	SPK value 0.6064 0.6064 0.6064	SPK Ref Val 0 0.006749	%REC 82.3 82.1 84.9	LowLimit 70 70 70	HighLimit 130 130 130	-	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total	Result 0.50 0.50 0.52 1.6 0.67	PQL 0.015 0.030 0.030	SPK value 0.6064 0.6064 1.819 0.6064	SPK Ref Val 0 0.006749 0.06827	%REC 82.3 82.1 84.9 83.7 110	LowLimit 70 70 70 70 39.1	HighLimit 130 130 130 130	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Result 0.50 0.50 0.52 1.6 0.67 sd SampT	PQL 0.015 0.030 0.030 0.061	SPK value 0.6064 0.6064 1.819 0.6064	SPK Ref Val 0 0.006749 0.06827 Tes	%REC 82.3 82.1 84.9 83.7 110	LowLimit 70 70 70 70 39.1 PA Method	HighLimit 130 130 130 130 130 146	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2311161-001ams	Result 0.50 0.50 0.52 1.6 0.67 sd SampT	PQL 0.015 0.030 0.030 0.061 Type: MS h ID: BS	SPK value 0.6064 0.6064 1.819 0.6064 5D 100941	SPK Ref Val 0 0.006749 0.06827 Tes F	%REC 82.3 82.1 84.9 83.7 110 tCode: EF	LowLimit 70 70 70 39.1 PA Method 00941	HighLimit 130 130 130 130 130 146	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2311161-001ams Client ID: FS01	Result 0.50 0.50 0.52 1.6 0.67 sd Samp1 Batch Analysis E Result	PQL 0.015 0.030 0.030 0.061 Type: MS h ID: BS Date: 11 PQL	SPK value 0.6064 0.6064 1.819 0.6064 5D 100941 /3/2023 SPK value	SPK Ref Val 0 0.006749 0.06827 Tes F	%REC 82.3 82.1 84.9 83.7 110 tCode: EF RunNo: 10 SeqNo: 37 %REC	LowLimit 70 70 70 39.1 PA Method 00941 705025 LowLimit	HighLimit 130 130 130 130 130 146 8021B: Volati	%RPD iles %g %RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2311161-001ams Client ID: FS01 Prep Date: Analyte	Result 0.50 0.52 1.6 0.67 sd Samp ¹ Batch Analysis E Result 0.50	PQL 0.015 0.030 0.030 0.061 Type: MS Date: 11	SPK value 0.6064 0.6064 1.819 0.6064 5D 100941 /3/2023 SPK value 0.6064	SPK Ref Val 0 0.006749 0.06827 Tes F	%REC 82.3 82.1 84.9 83.7 110 tCode: EF RunNo: 10 SeqNo: 37 %REC 82.2	LowLimit 70 70 70 39.1 PA Method 00941 705025 LowLimit 70	HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K	%RPD		
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2311161-001ams Client ID: FS01 Prep Date: Analyte Benzene	Result 0.50 0.50 0.52 1.6 0.67 sd Samp1 Batch Analysis E Result	PQL 0.015 0.030 0.030 0.061 Type: MS h ID: BS Date: 11 PQL 0.015 0.030	SPK value 0.6064 0.6064 1.819 0.6064 5D 100941 /3/2023 SPK value	SPK Ref Val 0 0.006749 0.06827 Tes F SPK Ref Val	%REC 82.3 82.1 84.9 83.7 110 tCode: EF RunNo: 10 SeqNo: 37 %REC	LowLimit 70 70 70 39.1 PA Method 00941 705025 LowLimit	HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit	%RPD iles %g %RPD	RPDLimit	
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2311161-001ams Client ID: FS01 Prep Date: Analyte Benzene Toluene	Result 0.50 0.52 1.6 0.67 sd Samp ¹ Batch Analysis E Result 0.50	PQL 0.015 0.030 0.030 0.061 Type: MS h ID: BS Date: 11 PQL 0.015	SPK value 0.6064 0.6064 1.819 0.6064 5D 100941 /3/2023 SPK value 0.6064	SPK Ref Val 0 0.006749 0.06827 Tes F SPK Ref Val 0	%REC 82.3 82.1 84.9 83.7 110 tCode: EF RunNo: 10 SeqNo: 37 %REC 82.2	LowLimit 70 70 70 39.1 PA Method 00941 705025 LowLimit 70 70 70 70 70	HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit 130	%RPD iles 59 %RPD 0.109	RPDLimit 20	
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2311161-001ams Client ID: FS01 Prep Date:	Result 0.50 0.52 1.6 0.67 Batch Analysis E Result 0.50 0.50	PQL 0.015 0.030 0.030 0.061 Type: MS h ID: BS Date: 11 PQL 0.015 0.030	SPK value 0.6064 0.6064 1.819 0.6064 D 100941 /3/2023 SPK value 0.6064 0.6064	SPK Ref Val 0 0.006749 0.06827 Tes F SPK Ref Val 0 0 0	%REC 82.3 82.1 84.9 83.7 110 tCode: EF RunNo: 10 SeqNo: 37 %REC 82.2 82.0	LowLimit 70 70 70 39.1 PA Method 00941 705025 LowLimit 70 70 70	HighLimit 130 130 130 130 146 8021B: Volati 8021B: Volati Units: mg/K HighLimit 130 130 130	%RPD iles 59 0.109 0.175	RPDLimit 20 20	

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

2311161

13-Nov-23

WO#:

	0 0 0 0 0 0 0 0 0 0	eurofins
--	--	----------

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

Client Name: Hilcorp Energy	Work Order Number:	2311161		RcptNo: 1	
Received By: Tracy Casarrubias	11/3/2023 7:55:00 AM				
Completed By: Tracy Casarrubias	11/3/2023 8:20:36 AM				
Reviewed By: 74 11/3/23					
Chain of Custody			「」		
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples?	,	Yes 🔽	No 🗌	NA 🗌	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	Νο		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except 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 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:	unless noted)
2 Are matrices correctly identified on Chain o	f Custody?	Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗹	No 🗌	600	0 11/2/2
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: 1	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🔽	
Person Notified:	Date:				
By Whom:	Via:] eMail 📋	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions: Mailing address	, phone number, and Ema	il/Fax are mis	sing on COC- T	MC 11/3/23	
16. Additional remarks:					
17. <u>Cooler Information</u>					
particular and a second s	Seal Intact Seal No Sea Yogi	Seal Date	Signed By		

Received by OCD: 11/28/2023 12:00:16 AM		Page 51 of 62
Chain-of-Custody Record	Turn-Around Line:	
Client: H. loop atthe Kate Kaupman	Brandard KRush Dame Day	ANALYSIS LABORATORY
kkaither a hileard con	1.	www.hallenvironmental.com
Mailing Address:	Enjor CC BINN	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		/sis kequ
email or Fax#:	Ø	°OS S s, (ОЫ
QA/QC Package:	Stuart Hyde	both bcb. bcb.
1: D Az Con	: Loch Myes	7 D / D 2808/ 1 7 2 8 2 8 7 2 8 7 2 8 7 7 8 7 7 8 7 7 8 7 7 8 7 8
	On Ice: DYes UNO Upg1 # of Coolers:	(GRC (GRC (GRC (GRC (GRC (GRC)
	Cooler Temp(Including CF): 1.3- 0 = 1.3 (°C)	03159 estic by 82 by 83 by 8 by 8 by 8 c h, 1 h
İ	Container Preservative HEAL No.	ВТЕУ 1PH:80 В270 (В270 (В260 (В20
	100	
100		
Date: Time: Relinguished by	Date Date 1	Remarks: cc: zuryans @ onsolum. www.
	18	
	entrocentracted the accredited laboratories. This serves as notice of th	serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

ľ, Released to Imaging: 2/21/2024 3:16:43 PM

•



Environment Testing

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

November 17, 2023 Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499

RE: Snyder GC B 1M

TEL: (505) 564-0733

FAX:

OrderNo.: 2311559

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 11/10/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311559

Date Reported: 11/17/2023

CLIENT:	HILCORP ENERGY	

2311559-001

Snyder GC B 1M

Client Sample ID: FS 01 B Collection Date: 11/9/2023 10:00:00 AM Matrix: MEOH (SOIL) Received Date: 11/10/2023 7:00:00 AM

Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 11/10/2023 10:35:12 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 11/10/2023 10:35:12 AM 69-147 Surr: DNOP 125 %Rec 1 11/10/2023 10:35:12 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 11/10/2023 11:44:00 AM 3.3 mg/Kg 1 Surr: BFB 104 15-244 %Rec 1 11/10/2023 11:44:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 11/10/2023 11:44:00 AM 0.017 mg/Kg 1 Toluene ND 0.033 mg/Kg 1 11/10/2023 11:44:00 AM Ethylbenzene ND 0.033 mg/Kg 1 11/10/2023 11:44:00 AM Xylenes, Total ND mg/Kg 11/10/2023 11:44:00 AM 0.067 1 Surr: 4-Bromofluorobenzene 99.2 39.1-146 %Rec 1 11/10/2023 11:44:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg 11/13/2023 7:27:41 AM Chloride ND 60 20

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
- POL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

Page 1 of 5

Client: Project:		ORP ENERGY er GC B 1M									
Sample ID:	LCS-78715	SampTyp	e: LCS	S	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batch II	D: 787	15	F	RunNo: 1	01137				
Prep Date:	11/13/2023	Analysis Date	e: 11	/13/2023	S	SeqNo: 3	714749	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.4	90	110			
Sample ID:	MB-78715	SampTyp	e: mb	lk	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch II	D: 787	15	F	RunNo: 1	01137				
Prep Date:	11/13/2023	Analysis Date	e: 11	/13/2023	S	SeqNo: 3	714750	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								

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

2311559

17-Nov-23

WO#:

Client: H	ILCORP ENERGY							
Project: S	nyder GC B 1M							
Sample ID: LCS-7869	9 SampType: LCS	TestCode: EPA Method	l 8015M/D: Diesel Range	e Organics				
Client ID: LCSS	Batch ID: 78699	RunNo: 101089	RunNo: 101089					
Prep Date: 11/10/20	23 Analysis Date: 11/10/202	SeqNo: 3711624	Units: mg/Kg					
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLimi	: HighLimit %RPD	RPDLimit Qual				
Diesel Range Organics (DR	O) 44 10 5	0.00 0 87.7 61.9	130					
Surr: DNOP	4.7 5.	000 93.4 69	147					
Sample ID: MB-78699	SampType: MBLK	TestCode: EPA Method	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 78699	RunNo: 101089						
Prep Date: 11/10/20	23 Analysis Date: 11/10/202	SeqNo: 3711626	Units: mg/Kg					
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Diesel Range Organics (DR	O) ND 10							
Motor Oil Range Organics (I	MRO) ND 50							
Surr: DNOP	9.6 10	0.00 96.3 69	147					
Sample ID: LCS-7870	1 SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 78701	RunNo: 101089						
Prep Date: 11/10/20	23 Analysis Date: 11/11/202	SeqNo: 3713386	Units: %Rec					
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLimit	: HighLimit %RPD	RPDLimit Qual				
Surr: DNOP	4.8 5.	000 96.9 69	147					
		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Sample ID: MB-78701	SampType: MBLK	TestCode: EPA Method	1 8015M/D: Diesel Range	e Organics				
Sample ID: MB-78701 Client ID: PBS	SampType: MBLK Batch ID: 78701	TestCode: EPA Method RunNo: 101089	1 8015M/D: Diesel Range	e Organics				
	Batch ID: 78701	RunNo: 101089	1 8015M/D: Diesel Range Units: % Rec	e Organics				
Client ID: PBS	Batch ID: 78701	RunNo: 101089 3 SeqNo: 3713388	Units: %Rec	e Organics RPDLimit Qual				

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 3 of 5

2311559

17-Nov-23

WO#:

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

HILCORP ENERGY

Project:	Snyder GC B 1M	51										
Sample ID: 2.5ug gr	o Ics Samp	оТуре: LC	s	Tes	tCode: EF	A Method	8015D: Gaso	line Range				
Client ID: LCSS	Bat	ch ID: R1	01095	F	RunNo: 10	01095						
Prep Date:	Analysis	Date: 11	/10/2023	S	SeqNo: 37	/12131	Units: mg/k	٤g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics	(GRO) 23	5.0	25.00	0	93.2	70	130					
Surr: BFB	2200		1000		222	15	244					
Sample ID: mb	Samp	оТуре: МЕ	BLK	Tes	tCode: EF	A Method	8015D: Gaso	line Range				
Client ID: PBS	Bat	ch ID: R1	01095	F	RunNo: 1(01095						
Prep Date:	Analysis	Date: 11	/10/2023	S	SeqNo: 37	12132	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics	. ,	5.0										
Surr: BFB	1100		1000		106	15	244					
Sample ID: 2311559	-001ams Samp	oType: MS	5	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FS 01 B	Bat	ch ID: R1	01095	RunNo: 101095								
Prep Date:	Analysis	Date: 11	/10/2023	S	SeqNo: 37	13259	Units: mg/k					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics	(GRO) 15	3.3	16.75	0	87.4	70	130					
Surr: BFB	1500		669.8		219	15	244					
Sample ID: 2311559	-001amsd Samp	Type: MS	D	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FS 01 B	Bat	ch ID: R1	01095	RunNo: 101095								
Prep Date:	Analysis	Date: 11	/10/2023	S	SeqNo: 37	13260	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Basoline Range Organics	. ,	3.3	16.75	0	83.0	70	130	5.12	20			
Surr: BFB	1400		669.8		210	15	244	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
- 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

WO#: 2311559 17-Nov-23 **Client:**

Project:

Sample ID: 100ng btex lcs

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

HILCORP ENERGY

Snyder GC B 1M

Client ID: LCSS	Batc	h ID: BS	101095	F	RunNo: 1(01095							
Prep Date:	Analysis [/10/2023	S	SeqNo: 37	g								
Analyte	Result PQL SPK value SF		SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit %RPD		Qual				
Benzene	0.97	0.025	1.000	0	96.6	70	130						
Toluene	0.97	0.050	1.000	0	97.4	70	130						
Ethylbenzene	1.0	0.050	1.000	0	99.9	70	130						
Xylenes, Total	3.0	0.10	3.000	0	99.5	70	130						
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146						
					TestCode: EPA Method 8021B: Volatiles								
Sample ID: mb	Samp ⁻	Гуре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volati	les					
Sample ID: mb Client ID: PBS		Гуре: МВ h ID: BS			tCode: EF RunNo: 1(8021B: Volati	les					
		h ID: BS	101095	F		01095	8021B: Volati Units: mg/K						
Client ID: PBS	Batc	h ID: BS	101095	F	RunNo: 1(01095			RPDLimit	Qual			
Client ID: PBS Prep Date:	Batcl Analysis [h ID: BS Date: 11	101095 /10/2023	F	RunNo: 1(SeqNo: 37	01095 712136	Units: mg/K	g	RPDLimit	Qual			
Client ID: PBS Prep Date: Analyte	Batc Analysis I Result	h ID: BS Date: 11 PQL	101095 /10/2023	F	RunNo: 1(SeqNo: 37	01095 712136	Units: mg/K	g	RPDLimit	Qual			
Client ID: PBS Prep Date: Analyte Benzene	Batc Analysis [Result ND	h ID: BS Date: 11 PQL 0.025	101095 /10/2023	F	RunNo: 1(SeqNo: 37	01095 712136	Units: mg/K	g	RPDLimit	Qual			
Client ID: PBS Prep Date: Analyte Benzene Toluene	Batc Analysis I Result ND ND	h ID: BS Date: 11 PQL 0.025 0.050	101095 /10/2023	F	RunNo: 1(SeqNo: 37	01095 712136	Units: mg/K	g	RPDLimit	Qual			

TestCode: EPA Method 8021B: Volatiles

Qualifiers:

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

- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

WO#:	2311559
	17_Nov_23

17-Nov-23

			н		975 FAX: 505 v.hallenvironn		Sam	
Received By:	IILCORP E	NERGY	Work	Order Num	ber: 231155)		RcptNo: 1
•	Juan Rojas	5	11/10/20	23 7:00:00	AM	4	ian & g	
Completed By:	Tracy Casa	rrubias	11/10/20)23 7:27:44	AM			
Reviewed By:	CR	11-10 - 23	3					
Chain of Custo	dy							
Is Chain of Cust	tody comple	ete?			Yes 🗌		No 🗹	Not Present
P. How was the sa	mple delive	red?			<u>Courier</u>			
<u>Log In</u> 3. Was an attempt	made to co	ol the sample	s?		Yes 🔽		No 🗌	
. Huo an attempt		on the sumple			103			
I. Were all sample	s received	at a temperati	ure of >0°C to	o 6.0°C	Yes 🗹	1	No 🗌	NA 🗌
5. Sample(s) in pro	oper contair	ner(s)?			Yes 🗹	I	No 🗌	
S. Sufficient sample	e volume fo	r indicated tes	st(s)?		Yes 🗹	1	No 🗌	
⁷ Are samples (ex	cept VOA a	ind ONG) pro	perly preserve	d?	Yes 🗹		No 🗌	_
Was preservativ	e added to	bottles?			Yes 🗌	1	No 🗹	NA 🗌
. Received at leas	st 1 vial with	headspace <	1/4" for AQ V	OA?	Yes 🗌	1	No 🗌	NA 🗹
(). Were any samp	le containe	rs received br	oken?		Yes 🗌		No 🗹	# of preserved bottles checked
1. Does paperwork (Note discrepand					Yes 🗹	I	No 🗆	for pH: (<2 or >12 unless noted
2. Are matrices cor	rrectly ident	ified on Chain	of Custody?		Yes 🗹	1	No 🗌	Adjusted?
3 _. Is it clear what a	nalyses we	re requested?			Yes 🗹	I	No 🗌	(ulu
4. Were all holding (If no, notify cust					Yes 🗹	1	No 🗌 _	Checked by: 70110
pecial Handlin	g (if app	licable)						
5. Was client notif	ied of all di	screpancies w	ith this order?		Yes 🗌		No 🗌	NA 🗹
Person No				Date	<i>r</i>	_		—
By Whom				Via:	🗌 eMail	Phone	Fax	In Person
Regarding Client Inst		Moiling odda		has and F			COC T	10 11/10/02
6. Additional remains	,	Mailing addre	ss,phone num	iber, and Ei	mail/Fax are i	nissng on	COC- IN	IC 11/10/23
7. <u>Cooler Inform</u>		Condition	Carllet	0111	010.1	0		
Cooler No 1	Temp °C 0.4	Condition Good	Seal Intact Yes	Seal No Yogi	Seal Date	Sign	led By	
1	0.4		Yes	Yogi				

•

Page 58 of 62

-	
\square	
-	
×	
0	
0	
-	
0	
5	
0	
0	
-	
0.0	
100	
0	
0	
0	
<u></u>	
- 00	
0	
51	
~	
-	
A Real Property lies	
•••	
-	
13	
\sim	
\geq	
X	
0	
0	
v 00	
_	
by 00	
19	
d by	
d by	
ed by	
ved by	
ived by	
ived by	
eived by	
ceived by	
eived by	
eceived by	
ceived by	

Page 59 of 62		ANALTSIS LABORATORY	www.hallenvironmental.com	- Albudie	Tel. 505-345-3975 Fax 505-345-4107		0¢' 20 SWI2 SB,2	8082 F 4.1) - 82709 - 82709 - 82709	\seb 0 0 0 2 1 2 0 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	ethod y 83 b Met r, Nd OA) emi-Y	PH:80 3081 Pc 3081 Pc 208 (M 200 (V 270 (S 01al Cc V 270 (S 01al Cc	3 3 4 2 2 3 8 8 8 8 8 8						ks:		 Anv sub-contracted data will be clearly notated on the analytical report
	Turn-Around Time: SAME		Sinder GC BHIM	Project #:			Hyde (8021)				Container Preservative HEAL No.	Ceve DOI X						Received by: Via: Date Time Remarks:	Via: Date 1	tracted to other accredited laboratories. This serves as notice of this possibility
	Client: Mil Corp ENERTRY Co.	44 Kate Kaufman 4	Address:	3	Phone #:	email or Fax#:	QA/QC Package:	□ Az Compliance			Date Time Matrix Sample Name)		 11-9 12-023 13 18 Reinpuished by	Date: Time: Relinquished by: N/9/12 1 XMA	Decessary, samples, submitted to

Kate Kaufman

From:	Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov></nelson.velez@emnrd.nm.gov>
Sent:	Friday, November 17, 2023 2:17 PM
To:	Kate Kaufman
Subject:	Re: [EXTERNAL] Snyder Gas Com B #1M BGT Closure (Incident ID nAPP2331753209).
Follow Up Flag:	Follow up
Flag Status:	Flagged

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

Good afternoon Kate,

Thank you for the correspondence. OCD accepts the oversight acknowledgement and will forgo any enforcement toward its intended effect.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,



Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

From: Kate Kaufman <kkaufman@hilcorp.com> Sent: Friday, November 17, 2023 1:00 PM To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: [EXTERNAL] Snyder Gas Com B #1M BGT Closure (Incident ID nAPP2331753209).

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon Nelson,

I am reaching out regarding closure reporting for a historic release discovered during BGT removal operations. We closed the Snyder Gas Com B #1M BGT, delineated and ultimately remediated a historic release via dig and haul. The final closure samples were collected on 11/9. Due to an administrative oversight, Hilcorp neglected to provide the 72

hour notice required by NMOCD regulations. I apologize for this error and would like to request a waiver for the closure sampling notification.

Please let me know if you have any questions or require additional information. Thank you, Kate

Kate Kaufman | Senior Environmental Specialist | Hilcorp Energy Company O: 346-237-2275 | C: 907-244-8292 | <u>kkaufman@hilcorp.com</u> 1111 Travis St. | Houston | TX | 77002

The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

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

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	288565
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	2/21/2024

Page 62 of 62

Action 288565