



Chevron Brininstool Closure Report

Brininstool CTB Incident ID: nAPP2319355921 B-S24-T23S-R33E Eddy County, New Mexico

Chevron North America Exploration and Production Company

February 28, 2024

→ The Power of Commitment



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1. Introduction

GHD Services Inc. (GHD), on behalf of Chevron U.S.A., Inc. (Chevron), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of assessment and remediation activities that were conducted in the affected area at the Chevron Brininstool Release Site (Site). The Site is in Unit Letter B Section 24 of Township 23 South and Range 33 East in Lea County, New Mexico. According to the spill notification and C-141, the GPS coordinates for the release site were 32.29688° N Latitude and 103.52252° W Longitude. The surface owner of the land where the release occurred is private. Figure 1 depicts the Site location. Other site details are provided in Appendix A.

1.1 Scope and Limitations

This report: has been prepared by GHD for Chevron North America Exploration and Production Company and may only be used and relied on by Chevron North America Exploration and Production Company for the purpose agreed between GHD and Chevron North America Exploration and Production Company as set out in this report.

GHD otherwise disclaims responsibility to any person other than Chevron North America Exploration and Production Company arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

Accessibility of documents

If this report is required to be accessible in any other format, this can be provided by GHD upon request and at an additional cost if necessary.

2. Background Information

A C-141 Release Notification for this release was submitted to the NMOCD on July 9, 2023, indicating the GPS coordinates to be 32.29688, -103.52252. The initial site assessment and Arc GIS mapping indicated the impacted area GPS coordinates to be 32.29689, -103.53839. The C-141 stated that 17.243 barrels (bbls) of produced water was spilled on an active production pad. The release was caused by failure of a 1/2" nipple connected to a valve leading from a three-phase separator unit. Soils within the active production area were noted to be darker in coloration from moisture and surrounded by a ring of white, indicating the spill footprint.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number nAPP2319355921. The Release Notification and Closure portions of Form C-141 are included in Appendix B.

3. Site Characterization and Closure Criteria

GHD characterized the Site according to Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). Research of the New Mexico State Engineers Office indicated that depth to Groundwater is 330 feet below ground surface (ft. bgs). The Point of Diversion (POD) is referenced in Appendix A.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Pyote and Maljamar fine sands. The parent material is composed of Sandy eolian deposits derived from sedimentary rock. This area is very well drained with a negligible run-off class. This soil is non-saline to very slightly saline (0.0 to 2.0 millimhos per centimeter (mmhos/cm). The soil survey is attached in Appendix A.

No other receptors (playas, wetlands, waterways, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4), the Site is located within an area with depth to water (DTW) greater than 50 feet bgs and meets the closure criteria for DTW greater than 50 feet in Table 1 in NMAC 19.15.29.12. The Site characterization documentation (Karst Potential, Points of Diversion [POD] Map, POD Well Logs, Significant Water Course, FEMA, and Wetlands maps) are provided in Appendix A. Research of site soil characterization from the soil closure criteria are listed below:

Table 1 General Site Characterization and Groundwater

Site Characterization	Average Groundwater Depth (ft)				
>300 Feet from a Significant Watercourse	234 (ft)				

Table 2 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	BTEX	Benzene	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	Chloride
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	50 mg/kg	10 mg/kg		100 mg/kg	600 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	50 mg/kg	10 mg/kg	1,000 mg/kg	2,500 mg/kg	10 mg/kg
Notes: mg/kg = milligram per kilogram = not defined					

4. Soil Delineation Assessment Summary and Findings

An initial limited soil assessment was performed by GHD in August 2023, post spill response activities. On August 7, 2023, GHD collected six soil samples from four hand-augured boreholes in the impacted area from depths ranging from 1-2 ft. bgs. A Site map indicating the approximate area of impact and sample locations can be referenced in Figure 2. The scope of sampling was limited by Chevron policies limiting depth near the equipment, and by auger refusal at 1' depth in two of the augured locations. All samples were submitted to Hall Laboratories (Hall) in Albuquerque, New Mexico, and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW846

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Soil analytical results indicated concentrations of chlorides were detected in five samples in exceedance of the standard in Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12) (NMAC Table 1 Closure Criteria, referenced in Table 2 site characterization) for depth to water greater than or equal to 100 ft bgs. The complete laboratory report is provided in Appendix D and summarized in Table 1.

GHD and Standard Safety (SS) conducted soil excavation activities between October 16, 2023, and November 22, 2023. Field titration for chloride was utilized to screen soil and guided the excavation activities. The impacted area was excavated to a total depth of four ft. bgs.

From October 23, 2023 through November 1, 2023, a total of 10 bottom hole and 7 sidewall composite confirmation soil samples were collected as confirmation samples in accordance with NMAC 19.15.29. All composite confirmation soil samples represented areas no greater than 200 square feet. Sample locations with samples that exceeded Table I Closure Criteria were also further excavated and resampled. Results from the confirmation soil samples were determined to be below applicable Table 1 Closure Criteria except for sample SW-5. Sample SW-5 could not be safely excavated horizontally due to the presence of oil and gas production equipment (3-Phase Separator). To vertically delineate the area of SW-5, one hand-augured soil boring was advanced between sample locations S-1 and S-7, to a depth of 5 ft. bgs, (S1-HA5). A test trench was also advanced in the areas of S3, S4, S5, and S6 (S4-TT 6') to delineate the area. In addition to the vertical delineation sampling that was conducted around SW-5 and the production equipment, two surface soil samples (0-1 ft. bgs) were collected (TPS-N and TPS-S) to confirm concentrations that would be left in place due to infrastructure stability and safety issues. Due to the safety issues, the area was only hand scraped to remove surficial staining.

Soil samples were placed in laboratory-provided containers, which were immediately labelled, sealed, and stored/transported in a cooler containing ice to a laboratory certified by the National Environmental Laboratory Program (NELAP) for analysis. Samples were transported via Chain-of-Custody to Hall Laboratories in Albuquerque, New Mexico. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by EPA Method 8015B, and Chlorides by EPA Method 300. The complete laboratory report is provided in Appendix D and summarized in Table 1. Sample locations are presented in Figure 3.

Waste management activities were performed in coordination with Chevron directives. GHD obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, New Mexico, 88220. Approximately 252.68 tons of impacted soil was removed from the remedial excavation and disposed of. The approved C-138 and waste manifests are available upon request but are not attached due to the size of the file. Sampling notifications were submitted to the NMOCD on October 19, 2023, and are included as Appendix B.

The excavation was backfilled with clean, virgin soil (sand and caliche) transported to the Site from a locally sourced pit. The excavated area around the underground electrical lines were backfilled with sand to prevent impediment to the lines. The remaining excavation was backfilled with clean caliche, compacted, and restored to grade.

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5. Closure Deferral Request

Site characterization, soil delineation, and remediation activities for Incident nAPP2319355921 have been performed in accordance with applicable NMOCD guidance and regulations. All areas of the release have been remediated to applicable Table 1 Closure Criteria except for the immediate area around on-Site oil and gas production equipment (See Figure 3). The area immediately under the 3-phase separator has not been remediated; however, a surface to one foot scrape was hand dug out around the separator. Based upon supporting documentation provided in this report, GHD, on behalf of Chevron, respectfully request deferral.

Due to safety concerns, infrastructure needed for production activity, and Chevron directives, GHD is requesting a deferral of the area immediately under the 3-phase separator to a point in time that the facility is either decommissioned or plug and abandoned.

If you have any questions or comments concerning this Site Closure Report, please do not hesitate to contact our Artesia office at (575) 616-3315.

Regards,

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Table 1

Point of Diversion Soil Survey

				Benzene	Toluene	Ethylbenzene	Xylenes (total)	Total BTEX	TPH (C6-C10) GRO	TPH (>C10-C28) DRO	TPH GRO+DRO	TPH (>C28-C36) ORO	Total TPH	Chloride
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		able I Closure C		10				50					100	600
		e I Closure Crite		10				50			1000		2500	10000
		ble I Closure Cr		10				50			1000		2500	20000
Location	<u>Sample ID</u>	Date	<u>Depth</u>											
					•	•	Initial Assessment		.		r	1	1	
TP1	TP1@0-1'	8/7/2023	0-1'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	4800
TP1	TP1@2'	8/7/2023	2'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	5500
TP2	TP2@1'	8/7/2023	1'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	4200
TP3	TP3@1'	8/7/2023	1'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	1500
TP3	TP3@2'	8/7/2023	2'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	400
TP4	TP4@1'	8/7/2023	1'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	9800
						·	Sampling Bottom							
S-1	S-1	10/23/2023	4'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	2400
S-2	S-2	10/23/2023	4'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	510
S-3	S-3	10/23/2023	4'	<0.025	< 0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	980
S-4	S-4	11/1/2023	4'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	810
S-5	S-5	11/1/2023	4'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	<20
S-6	S-6	10/23/2023	4'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	1100
S-7	S-7	10/23/2023	4'	<0.025	< 0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	990
S-8	S-8	11/1/2023	4'	<0.025	< 0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	99
							on Sampling Sidew	all Samples	•					
SW-1	SW-1	10/ 23/20 23	04	≤0.02 5	< 0.05	< 0.05	~0.1	<0.22 5	-5	~9.9	<14.9	-50	<64.9	640
SW-1	SW-1A	11/14/2023	0-4'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	400
SW-2	SW-2	10/23/2023	0-4'	<0.025	< 0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	280
SW-3	SW-3	11/1/2023	0-4'	<0.025	< 0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	110
SW-4	SW-4	11/1/2023	0-4'	<0.025	< 0.05	< 0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	<20
SW-5	SW-5	11/1/2023	0-4'	<0.025	< 0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	920
SW-6	SW-6	11/1/2023	0-4'	<0.025	< 0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	570
					Co	onfirmation Sampl	ing Hand Auger &	Test Trench Sa	Imples					
S1	S1-HA5	10/24/2023	5'	<0.025	< 0.05	< 0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	360
S-4	TT 6'	11/1/2023	6'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	82
						Confirmati	on Sampling Surfa	ce Samples						
TPS-N	TPS-N	10/24/2023	0'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	320	320	270	590	1600
TPS-S	TPS-S	10/24/2023	0'	<0.025	<0.05	<0.05	<0.1	<0.225	<5	<9.9	<14.9	<50	<64.9	4800

Notes:

Values reported in mg/kg

2. < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

Sample Point Excavated

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1 of 1

Table 2

Material In/Out Recap											
Date	Trucks/Loads	Yards Out	280	Yards In	260						
10/17/2023	1 Burton Hydrovac 1 Load		4		0						
10/18/2023	1 Burton Hydrovac 2 Loads		8		0						
10/19/2023	1 Burton Hydrovac Loads	2	8		0						
11/20/2023	6 Bosses Belly's Loads	12	220		240						
11/22/2023	2 Bosses Belly's 3 Loads		40		20						

Brininstool Disposal



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Appendices

Appendix A Point of Diversion Soil Survey

Received by OCD: 5/22/2024 9:54:26 AM National Flood Hazard Layer FIRMette



Legend

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Basemap Imagery Source: USGS National Map 2023



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National Wetlands Inventory

Brininstool Wetlands Map



August 8, 2023 This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site. Image: Wetland Service and Marine Deepwater Image: Freshwater Forested/Shrub Wetland Image: Service is not responsible for the accuracy or currentness of the base data should be used in accordance with the layer metadata found on the Wetlands Mapper web site. Image: Estuarine and Marine Wetland Image: Freshwater Pond Image: Riverine

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National Wetlands Inventory (NWI) This page was produced by the NWI mapper



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ined,	1		· *				/ 2=NE est to la:	3=SW 4=SJ rgest) (N	E) IAD83 UTM in n	neters)	(In :	feet)	
		POD		_	_	_									
POD Number	Code	Sub-	County	-	Q	-	S00	Two	Dng	X	Y	DistanceDe	nthWallDan		ater
<u>C 04353 POD1</u>	Coue	CUB	ED				24	23S	33E	639474	3574098 🦲	415	603	330	273
<u>C 02282</u>		CUB	LE	3	1	1	25	23S	33E	638098	3572436* 🥘	2122	325	225	100
<u>C 02283</u>		CUB	LE	4	2	2	26	238	33E	637896	3572431* 🌍	2230	325	225	100
<u>CP 01886 POD1</u>		СР	LE	4	1	4	07	238	34E	640646	3576545 🌍	2718			
<u>C 03582 POD1</u>		С	LE	4	1	1	14	23S	33E	636583	3575666 🌍	2873	590		
<u>C 02284</u>		CUB	LE	4	2	4	26	23S	33E	637907	3571626* 🌍	2933	325	225	100
<u>C 04667 POD1</u>		CUB	LE	3	4	3	20	23S	34E	641770	3572915 🌍	2998			
<u>CP 00556 POD1</u>		СР	LE	4	4	3	08	23S	34E	641762	3576206 🔵	3265	497	255	242
<u>C 04664 POD1</u>		CUB	LE	4	1	4	15	23S	33E	635784	3574818 🌍	3367	55		
<u>CP 01130 POD2</u>		СР	LE	2	1	2	07	238	34E	640674	3577549 🔵	3604	27		
<u>CP 01130 POD1</u>		СР	LE	2	1	2	07	23S	34E	640662	3577558 🌍	3608	27		
<u>CP 00278 POD1</u>		СР	LE	1	3	4	06	23S	34E	640413	3577897 🌍	3825	640		
<u>CP 00872 POD1</u>		СР	LE	1	1	1	08	23S	34E	641225	3577504* 🌍	3837	494	305	189
<u>CP 01075 POD1</u>		СР	LE	1	1	1	08	23S	34E	641295	3577544 🌍	3910	430	20	410
<u>CP 01502 POD1</u>		СР	LE	4	3	3	05	23S	34E	641316	3577635 🌍	3997	648	200	448
<u>CP 01971 POD1</u>		СР	LE	1	1	3	06	23S	34E	639700	3578272 🌍	4015			
<u>CP 01502 POD2</u>		СР	LE	4	3	3	05	23S	34E	642074	3577676 🌍	4491	680	300	380
<u>CP 01730 POD1</u>		СР	LE	2	2	1	16	23S	34E	643549	3575824 🌍	4692	594	200	394
<u>CP 01760 POD1</u>		СР	LE	3	1	2	16	23S	34E	643627	3575897 🌍	4790	767	290	477
											Avera	ge Depth to Wat	er:	234 fee	et
												Minimum De	epth:	20 fee	et
												Maximum De	pth:	330 fee	et
Record Count: 19															

UTMNAD83 Radius Search (in meters):

Easting (X): 639111

Easting (X): 639111

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Northing (Y): 3574301

12/11/23 10:05 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarte	rs are 1	=NW 2	=NE 3=SW	/ 4=SE)			
			(quar	ters are	smalles	t to largest)	(NAD83 U	TM in meters)	
Well Tag	POD) Number	Q64	Q16 Q	24 S	ec Tws	Rng	Χ	Y	
NA	C 0	4353 POD1	4	2	2 2	4 23S	33E	639474	3574098 🌍	
x Driller Lic	ense:	1737	Driller	Comp	any:	SH	ADE TI	REE DRILL	JING	
Driller Na	me:	JUSTIN MULLI	NS							
Drill Start	Date:	11/04/2019	Drill Fi	inish I	Date:	1	1/13/20	19 P I	ug Date:	
Log File D	ate:	01/29/2020	PCW F	Rev Da	te:			Se	ource:	Shallow
Ритр Тур	e:		Pipe Di	ischar	ge Siz	ze:		\mathbf{E}_{2}	stimated Yield:	30 GPM
Casing Siz	e:	6.00	Depth	Well:		6	03 feet	D	Depth Water:	
X	Wate	er Bearing Stratif	ications:		Тор	Botton	n Desc	ription		
					330	344	Sand	stone/Grave	el/Conglomerate	
X		Casing Perf	orations:		Тор	Botton	ı			
					301	601				

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12/11/23 10:17 AM

POINT OF DIVERSION SUMMARY



United States Department of Agriculture

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.





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Received by OCD: 5/22/2024 9:54:26 AM

MAP INFORMATION

MAP LEGEND



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
PU	Pyote and Maljamar fine sands	3.3	41.6%		
SY	Stony rolling land	4.6	58.4%		
Totals for Area of Interest		7.8	100.0%		

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent Maljamar and similar soils: 44 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s Hydrologic Soil Group: A Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent Ecological site: R070BC022NM - Sandhills Hydric soil rating: No

SY—Stony rolling land

Map Unit Setting

National map unit symbol: dmr5 *Elevation:* 3,200 to 3,700 feet

Custom Soil Resource Report

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Torriorthents and similar soils: 85 percent *Minor components:* 15 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Torriorthents

Setting

Landform: Escarpments Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous residuum weathered from sandstone and shale

Typical profile

A - 0 to 20 inches: extremely gravelly sandy loam Cr - 20 to 60 inches: bedrock

Properties and qualities

Slope: 5 to 95 percent
Depth to restrictive feature: 10 to 60 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BC025NM - Shallow Hydric soil rating: No

Minor Components

Largo

Percent of map unit: 8 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Pajarito

Percent of map unit: 7 percent *Ecological site:* R070BD003NM - Loamy Sand Hydric soil rating: No

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Appendix B Form C-141_NMOCD Correspondence

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018

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Submit to appropriate OCD District office

Incident ID	nAPP2319355921
District RP	
Facility ID	fAPP2130435543
Application ID	

Release Notification

Responsible Party

Responsible Party Chevron U.S.A., Inc.	OGRID ⁴³²³
Contact Name Catherine Smith	Contact Telephone 432-967-9487
Contact email catherinesmith@chevron.com	Incident # (assigned by OCD) nAPP2319355921
Contact mailing address 6301 Deauville Blvd. Midland, TX 79706	

Location of Release Source

Latitude 32.29389

Longitude -103.53839 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Brininstool CTB	Site Type Production Facility
Date Release Discovered 7/9/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
В	24	238	33E	Lea

Surface Owner: State Federal Tribal X Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
X Produced Water	Volume Released (bbls) 17.243	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Corrosion on 1/2 inch nipple connected to the valve.

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
Yes X No	
If YES, was immediate ne	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

 $\overline{\mathbf{X}}$ The source of the release has been stopped.

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

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Catherine Smith	Title: Lead Environmental Specialist, Field Support
Signature:	Date:7/12/2023
email:catherinesmith@chevron.com	Telephone: <u>432-967-9487</u>
OCD Only	
Received by:	Date:

Appendix C Site Photographs

Site Photographs



Photo 1 Southern Impact Area prior to Excavation on 08/07/2023



Photo 2 Western Impact Area prior to Excavation on 08/07/2023





Photo 3 Eastern Excavation Area on 10/16/2023



Photo 4 Hydrovacced Electrical Line on 10/17/2023



Photo 5

Northeast Excavation Area on 10/17/2023



Photo 6

Digging Eastern Excavation Area on 10/18/2023



Photo 7 Hydrovaccing and Hand Digging Progress on 10/18/2023



Photo 8 Northern Excavation Area on 10/19/2023



Photo 9 Northwestern Excavation Area on 10/23/2023



Photo 10 Southwestern Excavation Area on 10/24/2023



Photo 11 Southwestern Backfill Progress on 11/20/2023



Photo 12 Northern Backfill Progress on 11/20/2023



Photo 13 Southwest Backfill Completion on 11/22/2023



Photo 14 Southeast Backfill Completion on 11/22/2023



Photo 15 North Backfill Completion on 11/22/2023

Appendix D

Laboratory Analytical Report

Date Reported:

			Date Reported.				
CLIENT: Chevron USA	Client Sample ID: TP1 @ 0-1'						
Project: Braininstool CBT		Collection Date: 8/7/2023 9:54:00 AM					
Lab ID: 2308475-001	Matrix: SOIL	Rece	Received Date: 8/9/2023 7:35:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: JME		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/11/2023 7:54:24 PM		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/11/2023 7:54:24 PM		
Surr: DNOP	92.2	69-147	%Rec	1	8/11/2023 7:54:24 PM		
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: RAA		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/11/2023 8:08:23 PM		
Surr: BFB	96.2	15-244	%Rec	1	8/11/2023 8:08:23 PM		
EPA METHOD 8021B: VOLATILES					Analyst: RAA		
Benzene	ND	0.023	mg/Kg	1	8/11/2023 8:08:23 PM		
Toluene	ND	0.046	mg/Kg	1	8/11/2023 8:08:23 PM		
Ethylbenzene	ND	0.046	mg/Kg	1	8/11/2023 8:08:23 PM		
Xylenes, Total	ND	0.093	mg/Kg	1	8/11/2023 8:08:23 PM		
Surr: 4-Bromofluorobenzene	109	39.1-146	%Rec	1	8/11/2023 8:08:23 PM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	4800	150	mg/Kg	50	8/15/2023 12:44:10 AM		

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 PQL Practical Quanitative Limit

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

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 Page 1 of 0

Date Reported:

CLIENT: Chevron USA	Client Sample ID: TP1 @ 2'					
Project: Braininstool CBT		Collection Date: 8/7/2023 10:00:00 AM				
Lab ID: 2308475-002	Matrix: SOIL Received Date: 8/9/2023 7:35:00 AM					
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: JME	
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	8/11/2023 8:05:24 PM	
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/11/2023 8:05:24 PM	
Surr: DNOP	94.5	69-147	%Rec	1	8/11/2023 8:05:24 PM	
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2023 8:31:58 PM	
Surr: BFB	96.1	15-244	%Rec	1	8/11/2023 8:31:58 PM	
EPA METHOD 8021B: VOLATILES					Analyst: RAA	
Benzene	ND	0.025	mg/Kg	1	8/11/2023 8:31:58 PM	
Toluene	ND	0.049	mg/Kg	1	8/11/2023 8:31:58 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2023 8:31:58 PM	
Xylenes, Total	ND	0.099	mg/Kg	1	8/11/2023 8:31:58 PM	
Surr: 4-Bromofluorobenzene	109	39.1-146	%Rec	1	8/11/2023 8:31:58 PM	
EPA METHOD 300.0: ANIONS					Analyst: JMT	
Chloride	5500	300	mg/Kg	100	8/15/2023 12:56:31 AM	

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 PQL Practical Quanitative Limit

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

- 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 Page 2 of 0

Date Reported:

				Du	te Reported.	
CLIENT: Chevron USA		Client S	Sample ID:	TP2 @	@ 1'R	
Project: Braininstool CBT	Collection Date: 8/7/2023 10:14:00 AM					
Lab ID: 2308475-003	Matrix: SOIL	Rece	ived Date:	8/9/20	23 7:35:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: JME	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/11/2023 8:16:24 PM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2023 8:16:24 PM	
Surr: DNOP	90.5	69-147	%Rec	1	8/11/2023 8:16:24 PM	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2023 8:55:33 PM	
Surr: BFB	95.5	15-244	%Rec	1	8/11/2023 8:55:33 PM	
EPA METHOD 8021B: VOLATILES					Analyst: RAA	
Benzene	ND	0.023	mg/Kg	1	8/11/2023 8:55:33 PM	
Toluene	ND	0.047	mg/Kg	1	8/11/2023 8:55:33 PM	
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2023 8:55:33 PM	
Xylenes, Total	ND	0.094	mg/Kg	1	8/11/2023 8:55:33 PM	
Surr: 4-Bromofluorobenzene	110	39.1-146	%Rec	1	8/11/2023 8:55:33 PM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	4200	150	mg/Kg	50	8/15/2023 4:30:02 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 Н

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.

- 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 Page 3 of 0

Date Reported:

	,			Du	te Reported.	
CLIENT: Chevron USA		Client S	ample ID:	TP3 @	Ø 1'	
Project: Braininstool CBT	Collection Date: 8/7/2023 10:18:00					
Lab ID: 2308475-004	Matrix: SOIL Received Date: 8/9/2023 7:35:00 AM					
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: JME	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/11/2023 4:25:21 PM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2023 4:25:21 PM	
Surr: DNOP	95.3	69-147	%Rec	1	8/11/2023 4:25:21 PM	
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst: KMN	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2023 3:15:00 AM	
Surr: BFB	103	15-244	%Rec	1	8/12/2023 3:15:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: KMN	
Benzene	ND	0.024	mg/Kg	1	8/12/2023 3:15:00 AM	
Toluene	ND	0.047	mg/Kg	1	8/12/2023 3:15:00 AM	
Ethylbenzene	ND	0.047	mg/Kg	1	8/12/2023 3:15:00 AM	
Xylenes, Total	ND	0.094	mg/Kg	1	8/12/2023 3:15:00 AM	
Surr: 4-Bromofluorobenzene	93.0	39.1-146	%Rec	1	8/12/2023 3:15:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: JMT	
Chloride	1500	60	mg/Kg	20	8/14/2023 9:01:53 PM	

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

Qualifiers:

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

D Н

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.

- 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 Page 4 of 0

Date Reported:

CLIENT: Chevron USA		Client S	Sample ID:	TP3 @	¢ 2'	
Project: Braininstool CBT	Collection Date: 8/7/2023 10:19:00 AM					
Lab ID: 2308475-005	Matrix: SOIL	023 7:35:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: JME	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/11/2023 8:27:24 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/11/2023 8:27:24 PM	
Surr: DNOP	85.9	69-147	%Rec	1	8/11/2023 8:27:24 PM	
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2023 11:16:17 PM	
Surr: BFB	93.4	15-244	%Rec	1	8/11/2023 11:16:17 PM	
EPA METHOD 8021B: VOLATILES					Analyst: RAA	
Benzene	ND	0.024	mg/Kg	1	8/11/2023 11:16:17 PM	
Toluene	ND	0.049	mg/Kg	1	8/11/2023 11:16:17 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2023 11:16:17 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	8/11/2023 11:16:17 PM	
Surr: 4-Bromofluorobenzene	107	39.1-146	%Rec	1	8/11/2023 11:16:17 PM	
EPA METHOD 300.0: ANIONS					Analyst: JMT	
Chloride	400	60	mg/Kg	20	8/14/2023 9:14:13 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 Н

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.

- 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 Page 5 of 0

Analytical Report Lab Order 2308475

Hall Environmental Analysis	•	Date Reported:				
CLIENT: Chevron USA Project: Braininstool CBT Lab ID: 2308475-006	Matrix: SOIL	Collec		8/7/20	2 1'R 23 10:20:00 AM 23 7:35:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: JME	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/11/2023 8:38:23 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/11/2023 8:38:23 PM	
Surr: DNOP	114	69-147	%Rec	1	8/11/2023 8:38:23 PM	
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/12/2023 12:26:30 AM	
Surr: BFB	93.3	15-244	%Rec	1	8/12/2023 12:26:30 AM	
EPA METHOD 8021B: VOLATILES					Analyst: RAA	
Benzene	ND	0.025	mg/Kg	1	8/12/2023 12:26:30 AM	
Toluene	ND	0.050	mg/Kg	1	8/12/2023 12:26:30 AM	
Ethylbenzene	ND	0.050	mg/Kg	1	8/12/2023 12:26:30 AM	
Xylenes, Total	ND	0.10	mg/Kg	1	8/12/2023 12:26:30 AM	
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	8/12/2023 12:26:30 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	9800	300	mg/Kg	100	8/15/2023 4:42:26 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 Н

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.

- 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 Page 6 of 0



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 03, 2023 Rebecca Pons GHD Midland

2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Chevron Brininstool CBT

OrderNo.: 2310C13

Dear Rebecca Pons:

Eurofins Environment Testing South Central, LLC received 10 sample(s) on 10/26/2023 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

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2310C13

Date Reported: 11/3/2023

CLIENT: GHD Midland	Client Sample ID: S-1							
Project: Chevron Brininstool CBT	Collection Date: 10/23/2023 10:00:00 AM							
Lab ID: 2310C13-001	Matrix: SOIL	Matrix: SOIL Received Date: 10/26/						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: RBC		
Chloride	2400	150	mg/Kg	50	10/31/2023 12:23:20 PM	A 78435		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: PRD		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/27/2023 4:50:25 PM	78420		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2023 4:50:25 PM	78420		
Surr: DNOP	106	69-147	%Rec	1	10/27/2023 4:50:25 PM	78420		
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: JJP		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 3:27:19 PM	78414		
Surr: BFB	93.6	15-244	%Rec	1	10/30/2023 3:27:19 PM	78414		
EPA METHOD 8021B: VOLATILES					Analys	t: JJP		
Benzene	ND	0.024	mg/Kg	1	10/30/2023 3:27:19 PM	78414		
Toluene	ND	0.048	mg/Kg	1	10/30/2023 3:27:19 PM	78414		
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 3:27:19 PM	78414		
Xylenes, Total	ND	0.097	mg/Kg	1	10/30/2023 3:27:19 PM	78414		
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/30/2023 3:27:19 PM	78414		

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
- 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

Page 1 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2310C13

Date Reported: 11/3/2023

CLIENT: GHD Midland	Client Sample ID: S-2							
Project: Chevron Brininstool CBT	Collection Date: 10/23/2023 10:05:00 AM							
Lab ID: 2310C13-002	Matrix: SOIL Received Date: 10/26/2023 7:30:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analy	st: KCB		
Chloride	510	60	mg/Kg	20	10/30/2023 6:42:16 P	M 78435		
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analy	st: PRD		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/27/2023 5:22:37 P	M 78420		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/27/2023 5:22:37 P	M 78420		
Surr: DNOP	103	69-147	%Rec	1	10/27/2023 5:22:37 P	M 78420		
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: JJP		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/30/2023 4:37:58 P	M 78414		
Surr: BFB	94.4	15-244	%Rec	1	10/30/2023 4:37:58 Pl	M 78414		
EPA METHOD 8021B: VOLATILES					Analy	st: JJP		
Benzene	ND	0.025	mg/Kg	1	10/30/2023 4:37:58 Pl	M 78414		
Toluene	ND	0.049	mg/Kg	1	10/30/2023 4:37:58 P	M 78414		
Ethylbenzene	ND	0.049	mg/Kg	1	10/30/2023 4:37:58 P	M 78414		
Xylenes, Total	ND	0.098	mg/Kg	1	10/30/2023 4:37:58 P	M 78414		
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/30/2023 4:37:58 Pl	VI 78414		

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
- 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

Page 2 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2310C13

Date Reported: 11/3/2023

CLIENT: CUD Midland		CI	ant Commis II) . C	2			
CLIENT: GHD Midland	Client Sample ID: S-3							
Project: Chevron Brininstool CBT	Collection Date: 10/23/2023 10:10:00 AM							
Lab ID: 2310C13-003	Matrix: SOIL	/26/2023 7:30:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: KCB		
Chloride	980	60	mg/Kg	20	10/30/2023 6:54:40 PM	78439		
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	t: PRD		
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/27/2023 5:33:24 PM	78420		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2023 5:33:24 PM	78420		
Surr: DNOP	102	69-147	%Rec	1	10/27/2023 5:33:24 PM	78420		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: JJP		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/30/2023 5:48:32 PM	78414		
Surr: BFB	94.0	15-244	%Rec	1	10/30/2023 5:48:32 PM	78414		
EPA METHOD 8021B: VOLATILES					Analys	t: JJP		
Benzene	ND	0.023	mg/Kg	1	10/30/2023 5:48:32 PM	78414		
Toluene	ND	0.047	mg/Kg	1	10/30/2023 5:48:32 PM	78414		
Ethylbenzene	ND	0.047	mg/Kg	1	10/30/2023 5:48:32 PM	78414		
Xylenes, Total	ND	0.094	mg/Kg	1	10/30/2023 5:48:32 PM	78414		
Surr: 4-Bromofluorobenzene	99.8	39.1-146	%Rec	1	10/30/2023 5:48:32 PM	78414		

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

Page 3 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2310C13

Date Reported: 11/3/2023

CLIENT: GHD Midland	Client Sample ID: S-6							
Project: Chevron Brininstool CBT	Collection Date: 10/23/2023 3:00:00 PM							
Lab ID: 2310C13-004	Matrix: SOIL		Received Dat	e: 10	/26/2023 7:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: KCB		
Chloride	1100	60	mg/Kg	20	10/30/2023 7:07:05 PM	1 78439		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: PRD		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/27/2023 5:44:08 PM	1 78420		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2023 5:44:08 PM	1 78420		
Surr: DNOP	105	69-147	%Rec	1	10/27/2023 5:44:08 PM	1 78420		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: JJP		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/30/2023 6:11:57 PM	1 78414		
Surr: BFB	95.7	15-244	%Rec	1	10/30/2023 6:11:57 PM	1 78414		
EPA METHOD 8021B: VOLATILES					Analys	t: JJP		
Benzene	ND	0.023	mg/Kg	1	10/30/2023 6:11:57 PM	1 78414		
Toluene	ND	0.046	mg/Kg	1	10/30/2023 6:11:57 PM	1 78414		
Ethylbenzene	ND	0.046	mg/Kg	1	10/30/2023 6:11:57 PM	1 78414		
Xylenes, Total	ND	0.093	mg/Kg	1	10/30/2023 6:11:57 PM	1 78414		
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	10/30/2023 6:11:57 PM	1 78414		

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

Page 4 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2310C13

Date Reported: 11/3/2023

CLIENT: GHD Midland		Clie	nt Sample II): S-′	7			
Project: Chevron Brininstool CBT		Co	ollection Date	e: 10	/23/2023 1:00:00 PM			
Lab ID: 2310C13-005	Matrix: SOIL Received Date: 10/26/2023 7:30:00 AM							
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: KCB		
Chloride	990	59	mg/Kg	20	10/30/2023 8:21:32 PM	78439		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: PRD		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/27/2023 5:54:55 PM	78420		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2023 5:54:55 PM	78420		
Surr: DNOP	105	69-147	%Rec	1	10/27/2023 5:54:55 PM	78420		
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: JJP		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 6:35:28 PM	78414		
Surr: BFB	97.1	15-244	%Rec	1	10/30/2023 6:35:28 PM	78414		
EPA METHOD 8021B: VOLATILES					Analys	t: JJP		
Benzene	ND	0.024	mg/Kg	1	10/30/2023 6:35:28 PM	78414		
Toluene	ND	0.048	mg/Kg	1	10/30/2023 6:35:28 PM	78414		
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 6:35:28 PM	78414		
Xylenes, Total	ND	0.096	mg/Kg	1	10/30/2023 6:35:28 PM	78414		
Surr: 4-Bromofluorobenzene	104	39.1-146	%Rec	1	10/30/2023 6:35:28 PM	78414		

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

Page 5 of 14

Surr: 4-Bromofluorobenzene

Analytical Report

Hall	Environmental	Analysis	Laboratory,	Inc.
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Lab Order 2310C13

Date Reported: 11/3/2023

10/30/2023 6:58:58 PM 78414

CLIENT:	GHD Midland		Cl	ient Sample II	D: SV	V-1					
Project:	Chevron Brininstool CBT		Collection Date: 10/23/2023 10:15:00 AM								
Lab ID:	2310C13-006	Matrix: SOIL	Matrix: SOILReceived Date: 10/26/2023								
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 300.0: ANIONS					Analys	t: KCB				
Chloride		640	60	mg/Kg	20	10/30/2023 8:33:57 PM	78439				
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: PRD				
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	10/27/2023 6:05:43 PM	78420				
Motor Oi	l Range Organics (MRO)	ND	50	mg/Kg	1	10/27/2023 6:05:43 PM	78420				
Surr: I	DNOP	108	69-147	%Rec	1	10/27/2023 6:05:43 PM	78420				
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analys	t: JJP				
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 6:58:58 PM	78414				
Surr: I	BFB	94.5	15-244	%Rec	1	10/30/2023 6:58:58 PM	78414				
EPA ME	THOD 8021B: VOLATILES					Analys	t: JJP				
Benzene	•	ND	0.024	mg/Kg	1	10/30/2023 6:58:58 PM	78414				
Toluene		ND	0.048	mg/Kg	1	10/30/2023 6:58:58 PM	78414				
Ethylben	zene	ND	0.048	mg/Kg	1	10/30/2023 6:58:58 PM	78414				
Xylenes,	Total	ND	0.096	mg/Kg	1	10/30/2023 6:58:58 PM	78414				

101

39.1-146

%Rec

1

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

Qualifiers:

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

Page 6 of 14

Hall	Environmental	Analysis	Laboratory,	Inc.
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Lab Order 2310C13

Date Reported: 11/3/2023

CLIENT: GHD Midland			ent Sample II						
Project: Chevron Brininstool CBT	Collection Date: 10/23/2023 10:20:00 AM Matrix: SOIL Received Date: 10/26/2023 7:30:00 AM								
Lab ID: 2310C13-007	Matrix: SOIL		e: 10	/26/2023 7:30:00 AN	1				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analy	st: KCB			
Chloride	280	60	mg/Kg	20	10/30/2023 8:46:21 PM	M 78439			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analy	st: PRD			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/27/2023 6:16:31 PM	A 78420			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/27/2023 6:16:31 PM	M 78420			
Surr: DNOP	110	69-147	%Rec	1	10/27/2023 6:16:31 PM	A 78420			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analy	st: JJP			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/30/2023 7:22:30 PM	A 78414			
Surr: BFB	95.0	15-244	%Rec	1	10/30/2023 7:22:30 PM	M 78414			
EPA METHOD 8021B: VOLATILES					Analy	st: JJP			
Benzene	ND	0.025	mg/Kg	1	10/30/2023 7:22:30 PM	M 78414			
Toluene	ND	0.049	mg/Kg	1	10/30/2023 7:22:30 PM	M 78414			
Ethylbenzene	ND	0.049	mg/Kg	1	10/30/2023 7:22:30 PM	M 78414			
Xylenes, Total	ND	0.098	mg/Kg	1	10/30/2023 7:22:30 PM	M 78414			
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	10/30/2023 7:22:30 PM	N 78414			

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

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Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2310C13

Date Reported: 11/3/2023

10/30/2023 7:45:57 PM 78414

CLIENT: Project:	GHD Midland Chevron Brininstool CBT	Client Sample ID: S1-HA5' Collection Date: 10/24/2023 8:30:00 AM							
Lab ID:	2310C13-008	Matrix: SOIL Received Date: 10/26/2023 7:30:00 At							
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst	ксв		
Chloride		360	61	mg/Kg	20	10/30/2023 8:58:46 PM	78439		
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: PRD		
Diesel Ra	ange Organics (DRO)	ND	9.7	mg/Kg	1	10/27/2023 6:27:20 PM	78420		
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	10/27/2023 6:27:20 PM	78420		
Surr: E	DNOP	106	69-147	%Rec	1	10/27/2023 6:27:20 PM	78420		
EPA MET	HOD 8015D: GASOLINE RAN	GE				Analyst	: JJP		
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	10/30/2023 7:45:57 PM	78414		
Surr: E	3FB	95.7	15-244	%Rec	1	10/30/2023 7:45:57 PM	78414		
EPA MET	HOD 8021B: VOLATILES					Analyst	: JJP		
Benzene		ND	0.025	mg/Kg	1	10/30/2023 7:45:57 PM	78414		
Toluene		ND	0.050	mg/Kg	1	10/30/2023 7:45:57 PM	78414		
Ethylben	zene	ND	0.050	mg/Kg	1	10/30/2023 7:45:57 PM	78414		
Xylenes,	Total	ND	0.099	mg/Kg	1	10/30/2023 7:45:57 PM	78414		

102

39.1-146

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
- В Analyte detected in the associated Method Blank

1

%Rec

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2310C13

Date Reported: 11/3/2023

CLIENT: GHD Midland		Cli	ient Sample II	D: TF	PS-N				
Project: Chevron Brininstool CBT	Collection Date: 10/24/2023 8:35:00 AM								
Lab ID: 2310C13-009	Matrix: SOIL		e: 10	e: 10/26/2023 7:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	st: KCB			
Chloride	1600	60	mg/Kg	20	10/30/2023 9:11:11 PN	1 78439			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	st: PRD			
Diesel Range Organics (DRO)	320	9.7	mg/Kg	1	10/27/2023 6:48:57 PN	1 78420			
Motor Oil Range Organics (MRO)	270	49	mg/Kg	1	10/27/2023 6:48:57 PN	1 78420			
Surr: DNOP	112	69-147	%Rec	1	10/27/2023 6:48:57 PN	1 78420			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	st: JJP			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/30/2023 8:09:23 PN	1 78414			
Surr: BFB	93.1	15-244	%Rec	1	10/30/2023 8:09:23 PN	1 78414			
EPA METHOD 8021B: VOLATILES					Analys	st: JJP			
Benzene	ND	0.025	mg/Kg	1	10/30/2023 8:09:23 PN	1 78414			
Toluene	ND	0.049	mg/Kg	1	10/30/2023 8:09:23 PN	1 78414			
Ethylbenzene	ND	0.049	mg/Kg	1	10/30/2023 8:09:23 PN	1 78414			
Xylenes, Total	ND	0.098	mg/Kg	1	10/30/2023 8:09:23 PN	1 78414			
Surr: 4-Bromofluorobenzene	99.4	39.1-146	%Rec	1	10/30/2023 8:09:23 PN	1 78414			

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2310C13

Date Reported: 11/3/2023

CLIENT: GHD Midland		Clie	ent Sample II	D: TP	PS-S					
Project: Chevron Brininstool CBT		Collection Date: 10/24/2023 8:40:00 AM								
Lab ID: 2310C13-010	Matrix: SOIL]	Received Dat	te: 10/26/2023 7:30:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: RBC				
Chloride	4800	300	mg/Kg	100	0 10/31/2023 1:00:32 PM	78439				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: PRD				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/27/2023 7:10:36 PM	78420				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2023 7:10:36 PM	78420				
Surr: DNOP	106	69-147	%Rec	1	10/27/2023 7:10:36 PM	78420				
EPA METHOD 8015D: GASOLINE RAN	NGE				Analys	t: JJP				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 8:32:49 PM	78414				
Surr: BFB	96.6	15-244	%Rec	1	10/30/2023 8:32:49 PM	78414				
EPA METHOD 8021B: VOLATILES					Analys	t: JJP				
Benzene	ND	0.024	mg/Kg	1	10/30/2023 8:32:49 PM	78414				
Toluene	ND	0.048	mg/Kg	1	10/30/2023 8:32:49 PN	l 78414				
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 8:32:49 PM	78414				
Xylenes, Total	ND	0.095	mg/Kg	1	10/30/2023 8:32:49 PM	78414				
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	10/30/2023 8:32:49 PM	78414				

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
- 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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	<u> </u>		100	۰.
Page	<u>08</u>	01	107	

	VO#:	2310C13	
boratory, Inc.		03-Nov-23	

Client:	GHD Mi		
Project:	Chevron	Brininstool CBT	
Sample ID:	MB-78435	SampType: mblk T	estCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 78435	RunNo: 100821
Prep Date:	10/30/2023	Analysis Date: 10/30/2023	SeqNo: 3699446 Units: mg/Kg
Analyte		Result PQL SPK value SPK Ref V	al %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-78435	SampType: Ics T	estCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 78435	RunNo: 100821
Prep Date:	10/30/2023	Analysis Date: 10/30/2023	SeqNo: 3699447 Units: mg/Kg
Analyte		Result PQL SPK value SPK Ref V	al %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.00 0	94.5 90 110
Sample ID:	MB-78439	SampType: mblk T	estCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 78439	RunNo: 100821
Prep Date:	10/30/2023	Analysis Date: 10/30/2023	SeqNo: 3699450 Units: mg/Kg
Analyte		Result PQL SPK value SPK Ref V	al %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-78439	SampType: Ics T	estCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 78439	RunNo: 100821
Prep Date:	10/30/2023	Analysis Date: 10/30/2023	SeqNo: 3699451 Units: mg/Kg
Analyte		Result PQL SPK value SPK Ref V	al %REC LowLimit HighLimit %RPD RPDLimit Qual
		14 1.5 15.00 0	94.9 90 110

Qualifiers:

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

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Released to Imaging: 6/13/2024 9:56:30 AM

GHD Midland

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project:	Chevron E	Brininstoo	l CBT								
Sample ID:	2310C13-001AMS	SampT	уре: МS	5	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	S-1	Batch	n ID: 784	420	F	RunNo: 1(00779				
Prep Date:	10/27/2023	Analysis D	ate: 10	/27/2023	5	SeqNo: 36	697640	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	47	9.6	48.17	0	97.0	54.2	135			
Surr: DNOP		6.0		4.817		125	69	147			
Sample ID:	2310C13-001AMSD	SampT	уре: МS	D	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	S-1	Batch	n ID: 78 4	420	F	RunNo: 1(00779				
Prep Date:	10/27/2023	Analysis D	ate: 10	/27/2023	S	SeqNo: 36	697641	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	46	9.2	46.17	0	99.2	54.2	135	1.99	29.2	
Surr: DNOP		5.7		4.617		124	69	147	0	0	
Sample ID:	LCS-78420	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	LCSS	Batch	n ID: 784	420	F	RunNo: 1(00779				
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 C	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	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel 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
•	Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								

Qualifiers:

Surr: DNOP

- * 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

10

10.00

в Analyte detected in the associated Method Blank

102

69

147

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 12 of 14

- WO#: 2310C13
- 03-Nov-23

GHD Midland

Chevron Brinins

Client:

Project:

Client ID:

Prep Date:

Surr: BFB

Analyte

Analyte

Analyte

Analvte

Sample ID: Ics-78414

LCSS

Gasoline Range Organics (GRO)

Sample ID: mb-78414

PBS

Gasoline Range Organics (GRO)

Sample ID: 2310c13-001ams

S-1

Gasoline Range Organics (GRO)

Sample ID: 2310c13-001amsd

10/27/2023

S-1

Gasoline Range Organics (GRO)

10/27/2023

10/27/2023

10/27/2023

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Batch ID: 78414

Analysis Date: 10/30/2023

PQL

SampType: MS

Batch ID: 78414

Analysis Date: 10/30/2023

POI

SampType: MSD

Batch ID: 78414

Analysis Date: 10/30/2023

PQL

4.8

4.8

5.0

SPK value SPK Ref Val

SPK Ref Val

SPK Ref Val

0

0

1000

SPK value

SPK value

24.11

964.3

24.06

962.5

Result

ND

930

Result

23

1900

Result

22

1900

lland Brininstoo	ol CBT								
	「ype: LC n ID: 78 4			tCode: EF		8015D: Gaso	line Range	1	
Analysis Date: 10/30/2023				698447	Units: mg/Kg				
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
21	5.0	25.00	0	85.9	70	130			
1900		1000		188	15	244			
SampT	уре: МЕ	BLK	Tes	tCode: EF	A Method	8015D: Gaso	line Range	1	

Units: mg/Kg

244

Units: mg/Kg

130

244

Units: mg/Kg

130

244

HighLimit

HighLimit

%RPD

%RPD

%RPD

2.99

0

RPDLimit

RPDLimit

RPDLimit

20

0

Qual

Qual

Qual

HighLimit

RunNo: 100815

SeqNo: 3698671

LowLimit

LowLimit

LowLimit

70

15

70

15

TestCode: EPA Method 8015D: Gasoline Range

15

TestCode: EPA Method 8015D: Gasoline Range

%REC

93.4

RunNo: 100815

SeqNo: 3699355

%REC

95.7

200

RunNo: 100815

SeqNo: 3699356

%REC

92.7

199

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

03-Nov-23

2310C13

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2310C13
	03-Nov-23

Client: Project:	GHD Midlan Chevron Brin		l CBT								
Sample ID: LCS-7	8414	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS		Batch	n ID: 78 4	14	RunNo: 100815						
Prep Date: 10/27	7/2023 Ar	nalvsis F)ate [.] 10	/30/2023		SeqNo: 36		Units: ma/K	'n		
		-				•		•	•		Qual
Analyte	R	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	-	%RPD	RPDLimit	Qual
Benzene		0.91	0.025	1.000 1.000	0	91.2					
Toluene Ethylbenzene		0.93 0.94	0.050 0.050	1.000	0 0	93.1 94.2					
Xylenes, Total		2.8	0.050	3.000	0	94.2 94.2					
Surr: 4-Bromofluorob	enzene	1.0	0.10	1.000	0	101					
	chizene	1.0		1.000		101	55.1	1-10			
Sample ID: mb-78	414	SampT	ype: ME	LK	Tes	tCode: EF	PA Method	49 Units: mg/Kg RPD RPDLimit VLimit HighLimit % RPD RPDLimit 70 130 - - 70 130 - - 70 130 - - 70 130 - - 70 130 - - 39.1 146 - - ethod 8021B: Volatiles stimg/Kg 39.1 146 ang/Kg ang/Kg ang/Kg ang/Kg ang/Kg ang/Kg ang/Kg ang/Kg ang/Kg ang/Kg			
Client ID: PBS		Batch ID: 78414			RunNo: 100815						
Prep Date: 10/27	7/2023 Ar	Analysis Date: 10/30/2023		/30/2023	SeqNo: 3698674			Units: mg/K	g		
Analyte	R	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-Bromofluorob	enzene	1.0		1.000		101	39.1	146			
Sample ID: 2310c	13-002ams	SampT	уре: М S	;	TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2		Batch	n ID: 78 4	14	F	RunNo: 100815					
Prep Date: 10/27	7/2023 Ar	nalysis D)ate: 10	/30/2023	SeqNo: 3699585			Units: mg/Kg			
Analyte	R	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	0.9823	0	90.5	70	130			
Toluene											
Toluctic		0.91	0.049	0.9823	0	92.9	70	130			
Ethylbenzene		0.91 0.94	0.049 0.049	0.9823 0.9823	0 0	92.9 95.3					
Ethylbenzene							70	130			
Ethylbenzene	enzene	0.94	0.049	0.9823	0	95.3	70 70	130 130			
Ethylbenzene Xylenes, Total		0.94 2.8 1.0	0.049	0.9823 2.947 0.9823	0 0	95.3 96.5 104	70 70 39.1	130 130 146	les		
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorob		0.94 2.8 1.0 SampT	0.049 0.098	0.9823 2.947 0.9823	0 0 Tes	95.3 96.5 104	70 70 39.1 PA Method	130 130 146	les		
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorob Sample ID: 2310c Client ID: S-2	13-002amsd	0.94 2.8 1.0 SampT Batch	0.049 0.098 Type: MS n ID: 78 4	0.9823 2.947 0.9823	0 0 Tes F	95.3 96.5 104 tCode: EF	70 70 39.1 PA Method 00815	130 130 146 8021B: Volati			
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorob Sample ID: 2310c Client ID: S-2	13-002amsd 7/2023 Ar	0.94 2.8 1.0 SampT Batch	0.049 0.098 Type: MS n ID: 78 4	0.9823 2.947 0.9823 5D 114 /30/2023	0 0 Tes F	95.3 96.5 104 tCode: EF	70 70 39.1 PA Method 00815	130 130 146 8021B: Volati Units: mg/K	g	RPDLimit	Qual
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorob Sample ID: 2310c Client ID: S-2 Prep Date: 10/27	13-002amsd 7/2023 Ar	0.94 2.8 1.0 SampT Batch	0.049 0.098 Type: MS DID: 78 4 Date: 10	0.9823 2.947 0.9823 5D 114 /30/2023	0 0 Tes F	95.3 96.5 104 tCode: EF RunNo: 10 SeqNo: 36	70 70 39.1 PA Method 00815 699586 LowLimit	130 130 146 8021B: Volati Units: mg/K HighLimit	g %RPD		Qual
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorob Sample ID: 2310c Client ID: S-2 Prep Date: 10/27 Analyte	13-002amsd 7/2023 Ar	0.94 2.8 1.0 SampT Batch nalysis D	0.049 0.098 ype: MS 1D: 78 4 Date: 10 PQL	0.9823 2.947 0.9823 5D 114 /30/2023 SPK value	0 0 Tes F SPK Ref Val	95.3 96.5 104 tCode: EF RunNo: 1(SeqNo: 3(%REC	70 70 39.1 PA Method 00815 599586 LowLimit 70	130 130 146 8021B: Volati Units: mg/K HighLimit 130	g %RPD 0.643	20	Qual
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorob Sample ID: 2310c: Client ID: S-2 Prep Date: 10/27 Analyte Benzene	13-002amsd 7/2023 Ar	0.94 2.8 1.0 SampT Batch nalysis D Result 0.88	0.049 0.098 Type: MS 0.1D: 78 4 Date: 10 <u>PQL</u> 0.025	0.9823 2.947 0.9823 D 114 /30/2023 SPK value 0.9823	0 0 Tes F SPK Ref Val 0	95.3 96.5 104 tCode: EF RunNo: 10 SeqNo: 36 %REC 90.0	70 70 39.1 PA Method 00815 599586 LowLimit 70 70	130 130 146 8021B: Volati Units: mg/K HighLimit 130 130	g %RPD 0.643 1.34	20 20	Qual
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorob Sample ID: 2310c: Client ID: S-2 Prep Date: 10/27 Analyte Benzene Toluene	13-002amsd 7/2023 Ar	0.94 2.8 1.0 SampT Batch nalysis E Result 0.88 0.90	0.049 0.098 Type: MS 0 ID: 784 0ate: 10 PQL 0.025 0.049	0.9823 2.947 0.9823 D 114 /30/2023 SPK value 0.9823 0.9823	0 0 Tes SPK Ref Val 0 0	95.3 96.5 104 tCode: EF RunNo: 10 SeqNo: 36 %REC 90.0 91.7	70 70 39.1 PA Method 00815 599586 LowLimit 70 70	130 130 146 8021B: Volati Units: mg/K HighLimit 130 130	g %RPD 0.643 1.34	20 20	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis Lab 4901 Hawl Albuquerque, NA TEL: 505-345-3975 FAX: 505-34 Website: www.hallenvironmen	ins NE 87109 San 5-4107	Sample Log-In Check List		
Client Name: GHD Midland	Work Order Number: 2310C13		RcptNo: 1		
Received By: Juan Rojas	10/26/2023 7:30:00 AM	(Joan By g)			
Completed By: Cheyenne Cason	10/26/2023 8:05:14 AM	Jun 200			
Reviewed By: 5CM 10/26/2	?				
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 🗌			
4. Were all samples received at a temperature o	f >0° C to 6.0°C Yes ☑	No 🗌	NA 🗌		
5. Sample(s) in proper container(s)?	Yes 🔽	No 🗌			
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌			
7. Are samples (except VOA and ONG) properly	preserved? Yes 🗹	No 🗌			
8. Was preservative added to bottles?	Yes 🗌	No 🔽	NA 🗌		
9. Received at least 1 vial with headspace <1/4"		No 🗌	NA 🔽		
10. Were any sample containers received broken	? Yes └┘	No 🔽	# of preserved bottles checked		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗌	for pH: (<2 or >12 unless noted)		
12. Are matrices correctly identified on Chain of C	ustody? Yes 🗹	No 🗌	Adjusted?		
13. Is it clear what analyses were requested?	Yes 🗹	No 🗌		-	
14. Were all holding times able to be met? (If no. notify customer for authorization.)	Yes 🗹	No 🗆	Checked by: 1110 26	23	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with the	is order? Yes	No 🗌	NA 🗹		
Person Notified:	Date:				
By Whom:	Via: 🗌 eMail 🗌] Phone 🗌 Fax	In Person		
Regarding:	7	water of the description			
	issing on COC- TMC 10/26/23				
16. Additional remarks:					
	al Intact Seal No Seal Date Present Yogi	Signed By			
Page 1 of 1					

Page 72 of 107
Received by OCD: 5/22/2024 9:54:26 AM

Chain-of-Custody Record	Turn-Arour	nd Time:														
Client: Amy Barnhill	Distandard Brining July 1724r. Project Name: Chevron Brining tool CBT Project #: 12620035				HALL ENVIRONMENTAL ANALYSIS LABORATORY											
Mailing Address:	Chevron Brinins tool CBT				www.hallenvironmental.com							-				
	Project #:				4901 Hawkins NE - Albuquerque, NM 87109											
Phone #: 432-687-7108	12620035				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request											
email or Fax#: ABarnhill @chevron.com	Project Manager:				0		- Secondaria	1		515 1		- Participantes	1 1			
QA/QC Package:	Repecca Pars			(8021)	/ MRO	CB's	SIMS		PO4, SO4			Absent				
Accreditation: Accreditation:	Sampler:	Sampler: Lian Giersdorf			/ DRC	8082 F	8270SIMS		ЧО ₂ , Р			esent/				
	On Ice: # of Coolers	Hes :	I No Year	Щ.	R.	des/8	0 o	als	03. 1		Q g	L L				
	The second s	and the state of t	7.7-0.1=2.6 (°C)	MTBE /	5D((sticio	831	Met	ž	(A)		Liou				
Date Time Matrix Sample Name	Container Type and #	Preservative Type	HEAL No. 2310C13		TPH:8015D(GRO/DRO/MRO)	8081 Pesticides/8082 PCB's FDB /Method 504 43	PAHs by 8310 or	RCRA 8 Metals	Q. Br, NO ₃ , NO ₂ ,	8260 (VOA)	82/0 (Semi-VOA)	l otal Coliform (Present/Absent)				
1023 1000 Soil SI	Jar,1	ICP	CCI	×	~	<u> </u>			X	<u> </u>			$\left - \right $			
1005 52	ĺ		007		T				1							+
010 53			003		$\uparrow \uparrow$				+						_	
1500 56			004	$\neg \uparrow \uparrow$					++							+
300 57			005		$\uparrow \uparrow$	-		- ² 2	++							+
1015 SW(œx						++-							+
U 1020 SWZ			cet.	\dashv				-								$\left - \right $
(0210830 S) - HA5			008						++-							+-1
0835 TPS-N	82		oeA.			-			++		+-					$\left - \right $
V 0840 1 TPS-S	V		010	J	J										+-	\vdash
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Date II Timé: Relinquished by:	Received by: Via: Date Time Re			Rem	arks:	Plea	se	em	ai	1 1	 844	12		 ``		
	Received by: Via: Date Time			reþ	ecc	a p	ons	Q	94	d.c	on	· /.	1 AM 4	برمرز	shi?	AD
13/13/1910 CAMMINIAND		Currier 10/26/23 7530			Remarks: Please email results to repecca.pons@ghd.com; linn.gicrs.lo.te ghd.com; Amy Born hill											

Released to Imaging: 6/13/2024 9:56:30 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 13, 2023 Rebecca Pons GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Chevron Brininstool CBT

OrderNo.: 2311162

Dear Rebecca Pons:

Eurofins Environment Testing South Central, LLC received 8 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

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311162

Date Reported: 11/13/2023

CLIENT: C	GHD Midland		Cl	ient Sample II	D: T7	Γ 6ft	
Project: (Chevron Brininstool CBT		(Collection Dat	e: 11	/1/2023 11:20:00 AM	
Lab ID: 2	2311162-001	Matrix: SOIL		/3/2023 7:55:00 AM			
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	IOD 300.0: ANIONS					Analys	t: SNS
Chloride		82	60	mg/Kg	20	11/7/2023 3:27:31 PM	78599
EPA METH	IOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: DGH
Diesel Ran	ge Organics (DRO)	ND	8.9	mg/Kg	1	11/7/2023 3:59:32 PM	78588
Motor Oil R	ange Organics (MRO)	ND	44	mg/Kg	1	11/7/2023 3:59:32 PM	78588
Surr: DN	IOP	86.1	69-147	%Rec	1	11/7/2023 3:59:32 PM	78588
EPA METH	IOD 8015D: GASOLINE RAN	IGE				Analys	t: JJP
Gasoline R	ange Organics (GRO)	ND	4.7	mg/Kg	1	11/8/2023 4:08:45 PM	78557
Surr: BF	В	92.9	15-244	%Rec	1	11/8/2023 4:08:45 PM	78557
EPA METH	IOD 8021B: VOLATILES					Analys	t: JJP
Benzene		ND	0.023	mg/Kg	1	11/8/2023 4:08:45 PM	78557
Toluene		ND	0.047	mg/Kg	1	11/8/2023 4:08:45 PM	78557
Ethylbenzer	ne	ND	0.047	mg/Kg	1	11/8/2023 4:08:45 PM	78557
Xylenes, To	otal	ND	0.094	mg/Kg	1	11/8/2023 4:08:45 PM	78557
Surr: 4-E	Bromofluorobenzene	94.9	39.1-146	%Rec	1	11/8/2023 4:08:45 PM	78557

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
- 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

Page 1 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311162

Date Reported: 11/13/2023

CLIENT: GHD Midland		Cli	ent Sample II	D: SV	V-3	
Project: Chevron Brininstool CBT		C	Collection Date	e: 11	/1/2023 1:05:00 PM	
Lab ID: 2311162-002	Matrix: SOIL		/3/2023 7:55:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	110	60	mg/Kg	20	11/7/2023 4:04:45 PM	78599
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	11/7/2023 4:23:36 PM	78588
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/7/2023 4:23:36 PM	78588
Surr: DNOP	86.0	69-147	%Rec	1	11/7/2023 4:23:36 PM	78588
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/8/2023 4:32:02 PM	78557
Surr: BFB	94.7	15-244	%Rec	1	11/8/2023 4:32:02 PM	78557
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.023	mg/Kg	1	11/8/2023 4:32:02 PM	78557
Toluene	ND	0.046	mg/Kg	1	11/8/2023 4:32:02 PM	78557
Ethylbenzene	ND	0.046	mg/Kg	1	11/8/2023 4:32:02 PM	78557
Xylenes, Total	ND	0.093	mg/Kg	1	11/8/2023 4:32:02 PM	78557
Surr: 4-Bromofluorobenzene	95.8	39.1-146	%Rec	1	11/8/2023 4:32:02 PM	78557

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
- 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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311162

Date Reported: 11/13/2023

CLIENT: GHD Midland		Cli	ient Sample II	D: SV	V-4					
Project: Chevron Brininstool CBT		(Collection Dat	e: 11	/1/2023 1:07:00 PM					
Lab ID: 2311162-003	Matrix: SOIL		Received Date: 11/3/2023 7:55:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: SNS				
Chloride	ND	59	mg/Kg	20	11/7/2023 5:06:48 PM	78599				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: DGH				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/7/2023 4:47:40 PM	78588				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/7/2023 4:47:40 PM	78588				
Surr: DNOP	89.8	69-147	%Rec	1	11/7/2023 4:47:40 PM	78588				
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: JJP				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/8/2023 4:55:36 PM	78557				
Surr: BFB	91.0	15-244	%Rec	1	11/8/2023 4:55:36 PM	78557				
EPA METHOD 8021B: VOLATILES					Analys	t: JJP				
Benzene	ND	0.024	mg/Kg	1	11/8/2023 4:55:36 PM	78557				
Toluene	ND	0.049	mg/Kg	1	11/8/2023 4:55:36 PM	78557				
Ethylbenzene	ND	0.049	mg/Kg	1	11/8/2023 4:55:36 PM	78557				
Xylenes, Total	ND	0.097	mg/Kg	1	11/8/2023 4:55:36 PM	78557				
Surr: 4-Bromofluorobenzene	92.8	39.1-146	%Rec	1	11/8/2023 4:55:36 PM	78557				

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
- 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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311162

Date Reported: 11/13/2023

CLIENT: GHD Midland		Clie	ent Sample II	D: SV	V-5	
Project: Chevron Brininstool CBT		С	ollection Dat	e: 11,	/1/2023 1:09:00 PM	
Lab ID: 2311162-004	Matrix: SOIL]	e: 11,	/3/2023 7:55:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	920	60	mg/Kg	20	11/7/2023 5:19:13 PM	78599
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/7/2023 5:11:45 PM	78588
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/7/2023 5:11:45 PM	78588
Surr: DNOP	84.4	69-147	%Rec	1	11/7/2023 5:11:45 PM	78588
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/8/2023 5:42:06 PM	78557
Surr: BFB	92.3	15-244	%Rec	1	11/8/2023 5:42:06 PM	78557
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.023	mg/Kg	1	11/8/2023 5:42:06 PM	78557
Toluene	ND	0.047	mg/Kg	1	11/8/2023 5:42:06 PM	78557
Ethylbenzene	ND	0.047	mg/Kg	1	11/8/2023 5:42:06 PM	78557
Xylenes, Total	ND	0.094	mg/Kg	1	11/8/2023 5:42:06 PM	78557
Surr: 4-Bromofluorobenzene	94.7	39.1-146	%Rec	1	11/8/2023 5:42:06 PM	78557

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
- 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

Page 4 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311162

Date Reported: 11/13/2023

CLIENT: GHD Midland		Cli	ent Sample II): SV	V-6	
Project: Chevron Brininstool CBT		C	collection Date	e: 11	/1/2023 1:11:00 PM	
Lab ID: 2311162-005	Matrix: SOIL]	/3/2023 7:55:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	570	60	mg/Kg	20	11/7/2023 5:31:38 PM	78599
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	11/7/2023 5:35:52 PM	78588
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	11/7/2023 5:35:52 PM	78588
Surr: DNOP	78.4	69-147	%Rec	1	11/7/2023 5:35:52 PM	78588
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/8/2023 6:05:28 PM	78557
Surr: BFB	90.1	15-244	%Rec	1	11/8/2023 6:05:28 PM	78557
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.025	mg/Kg	1	11/8/2023 6:05:28 PM	78557
Toluene	ND	0.050	mg/Kg	1	11/8/2023 6:05:28 PM	78557
Ethylbenzene	ND	0.050	mg/Kg	1	11/8/2023 6:05:28 PM	78557
Xylenes, Total	ND	0.099	mg/Kg	1	11/8/2023 6:05:28 PM	78557
Surr: 4-Bromofluorobenzene	92.6	39.1-146	%Rec	1	11/8/2023 6:05:28 PM	78557

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
- 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

Page 5 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311162

Date Reported: 11/13/2023

CLIENT: GHD Midland	Client Sample ID: S-4									
Project: Chevron Brininstool CBT		C	Collection Date	e: 11.	/1/2023 3:20:00 PM					
Lab ID: 2311162-006	Matrix: SOIL	/3/2023 7:55:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: SNS				
Chloride	810	60	mg/Kg	20	11/7/2023 5:44:03 PM	78599				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: DGH				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/7/2023 6:00:04 PM	78588				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/7/2023 6:00:04 PM	78588				
Surr: DNOP	79.9	69-147	%Rec	1	11/7/2023 6:00:04 PM	78588				
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: JJP				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/8/2023 6:28:56 PM	78557				
Surr: BFB	94.2	15-244	%Rec	1	11/8/2023 6:28:56 PM	78557				
EPA METHOD 8021B: VOLATILES					Analys	t: JJP				
Benzene	ND	0.023	mg/Kg	1	11/8/2023 6:28:56 PM	78557				
Toluene	ND	0.047	mg/Kg	1	11/8/2023 6:28:56 PM	78557				
Ethylbenzene	ND	0.047	mg/Kg	1	11/8/2023 6:28:56 PM	78557				
Xylenes, Total	ND	0.093	mg/Kg	1	11/8/2023 6:28:56 PM	78557				
Surr: 4-Bromofluorobenzene	95.7	39.1-146	%Rec	1	11/8/2023 6:28:56 PM	78557				

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

Page 6 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311162

Date Reported: 11/13/2023

CLIENT: GHD Midland		Cli	ient Sample II	D: S-	5				
Project: Chevron Brininstool CBT		(Collection Dat	e: 11	/1/2023 3:22:00 PM				
Lab ID: 2311162-007	Matrix: SOIL		Received Date: 11/3/2023 7:55:00 A						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: SNS			
Chloride	ND	60	mg/Kg	20	11/7/2023 5:56:27 PM	78599			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: DGH			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/7/2023 6:24:20 PM	78588			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/7/2023 6:24:20 PM	78588			
Surr: DNOP	81.6	69-147	%Rec	1	11/7/2023 6:24:20 PM	78588			
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: JJP			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/8/2023 6:52:30 PM	78557			
Surr: BFB	92.5	15-244	%Rec	1	11/8/2023 6:52:30 PM	78557			
EPA METHOD 8021B: VOLATILES					Analyst	: JJP			
Benzene	ND	0.024	mg/Kg	1	11/8/2023 6:52:30 PM	78557			
Toluene	ND	0.048	mg/Kg	1	11/8/2023 6:52:30 PM	78557			
Ethylbenzene	ND	0.048	mg/Kg	1	11/8/2023 6:52:30 PM	78557			
Xylenes, Total	ND	0.096	mg/Kg	1	11/8/2023 6:52:30 PM	78557			
Surr: 4-Bromofluorobenzene	94.4	39.1-146	%Rec	1	11/8/2023 6:52:30 PM	78557			

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
- 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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2311162

Date Reported: 11/13/2023

CLIENT: GHD Midland		Client Sample ID: S-8 Collection Date: 11/1/2023 3:24:00 PM									
Project:Chevron Brininstool CBTLab ID:2311162-008	Matrix: SOIL										
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	t: SNS					
Chloride	99	60	mg/Kg	20	11/7/2023 6:08:52 PM	78599					
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: DGH					
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	11/7/2023 6:48:35 PM	78588					
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/7/2023 6:48:35 PM	78588					
Surr: DNOP	85.1	69-147	%Rec	1	11/7/2023 6:48:35 PM	78588					
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: JJP					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/8/2023 7:16:05 PM	78557					
Surr: BFB	92.1	15-244	%Rec	1	11/8/2023 7:16:05 PM	78557					
EPA METHOD 8021B: VOLATILES					Analys	t: JJP					
Benzene	ND	0.025	mg/Kg	1	11/8/2023 7:16:05 PM	78557					
Toluene	ND	0.050	mg/Kg	1	11/8/2023 7:16:05 PM	78557					
Ethylbenzene	ND	0.050	mg/Kg	1	11/8/2023 7:16:05 PM	78557					
Xylenes, Total	ND	0.099	mg/Kg	1	11/8/2023 7:16:05 PM	78557					
Surr: 4-Bromofluorobenzene	93.6	39.1-146	%Rec	1	11/8/2023 7:16:05 PM	78557					

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

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Page	83	of 10	97
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÷	J MMARY ivironmental				ry, Inc.					WO#:	2311162 13-Nov-23
Client: Project:	GHD Mid Chevron F		l CBT								
Sample ID:	MB-78599	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anion:	S		
Client ID:	PBS	Batch	ID: 78	599	F	RunNo: 10	01020				
Prep Date:	11/6/2023	Analysis D	ate: 11	/7/2023	S	SeqNo: 3	708550	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-78599	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	Batch ID: 78599 RunNo: 101020								
Prep Date:	11/6/2023	Analysis D	ate: 11	/7/2023	S	SeqNo: 37	708551	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	96.0	90	110			
Sample ID:	2311162-001AMS	SampT	уре: М	3	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	TT 6ft	Batch	ID: 78	599	F	RunNo: 10	01020				
Prep Date:	11/6/2023	Analysis D	ate: 11	/7/2023	S	SeqNo: 37	708561	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		110	60	30.00	81.68	95.3	50	150			
Sample ID:	2311162-001AMSD	SampT	уре: М	SD	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID:	TT 6ft	Batch	ID: 78	599	F	RunNo: 10	01020				
Prep Date:	11/6/2023	Analysis D	ate: 11	/7/2023	S	SeqNo: 37	708562	Units: mg/K	(g		

Analy	te	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	e	120	60	30.00	81.68	113	50	150	4.72	20	

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
- 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

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10.00

	Midland on Brininstool CBT								
Sample ID: LCS-78588	SampType: LCS		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 78588	B	F	RunNo: 1(00996				
Prep Date: 11/6/2023	Analysis Date: 11/6/	/2023	SeqNo: 3707250			Units: mg/K	g		
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45 10	50.00	0	90.9	61.9	130			
Surr: DNOP	4.4	5.000		88.2	69	147			
Sample ID: MB-78588	SampType: MBLI	к	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 78588	В	F	RunNo: 10	00996				
Prep Date: 11/6/2023	Analysis Date: 11/6/	/2023	SeqNo: 3707253			Units: mg/K	g		
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								

106

69

147

Motor Oil Range Organics (MRO) Surr: DNOP

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

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2311162

13-Nov-23

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: GHD Mi Project: Chevron	dland Brininstool	CBT									
Sample ID: Ics-78557	SampTy	/pe: LC	S	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78557			RunNo: 101030							
Prep Date: 11/3/2023	Analysis Da	ate: 11	/8/2023	S	09400	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	70	130				
Surr: BFB	2100		1000		210	15	244				
Sample ID: mb-78557	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range			
Client ID: PBS	Batch	ID: 785	557	F	RunNo: 10	01030					
Prep Date: 11/3/2023	Analysis Da	ate: 11	/8/2023	5	SeqNo: 37	09401	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	950		1000		94.6	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

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13-Nov-23

WO#:

GHD Midland

Client:

Project:

Sample ID: LCS-78557

Client ID: LCSS

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Chevron Brininstool CBT

SampType: LCS

Batch ID: 78557

Prep Date: 11/3/2023	Analysis [Date: 11	ate: 11/8/2023 SeqNo: 3709404				Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.97	0.025	1.000	0	97.3	70	130					
Toluene	0.98	0.050	1.000	0	97.8	70	130					
Ethylbenzene	0.97	0.050	1.000	0	97.4	70	130					
Xylenes, Total	3.0	0.10	3.000	0	98.4	70	130					
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	39.1	146					
Sample ID: mb-78557 SampType: MBLK TestCode: EPA Method 8021B: Volatiles												
	Camp	. , , , , , , , , , , , , , , , , , , ,				/	oozie. Folali					
Client ID: PBS	•	h ID: 785			RunNo: 10							
	•	h ID: 785	557	F		01030	Units: mg/K					
Client ID: PBS	Batc	h ID: 785	557	F	RunNo: 1(01030			RPDLimit	Qual		
Client ID: PBS Prep Date: 11/3/2023	Batcl Analysis [h ID: 785 Date: 11	557 /8/2023	F	RunNo: 1(SeqNo: 37)1030 709405	Units: mg/K	g	RPDLimit	Qual		
Client ID: PBS Prep Date: 11/3/2023 Analyte	Batc Analysis I Result	h ID: 785 Date: 11 PQL	557 /8/2023	F	RunNo: 1(SeqNo: 37)1030 709405	Units: mg/K	g	RPDLimit	Qual		
Client ID: PBS Prep Date: 11/3/2023 Analyte Benzene	Batc Analysis I Result ND	h ID: 785 Date: 11 PQL 0.025	557 /8/2023	F	RunNo: 1(SeqNo: 37)1030 709405	Units: mg/K	g	RPDLimit	Qual		
Client ID: PBS Prep Date: 11/3/2023 Analyte Benzene Toluene	Analysis I Result ND ND	h ID: 785 Date: 11 PQL 0.025 0.050	557 /8/2023	F	RunNo: 1(SeqNo: 37)1030 709405	Units: mg/K	g	RPDLimit	Qual		

TestCode: EPA Method 8021B: Volatiles

RunNo: 101030

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
- 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

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WO#: 2311162 13-Nov-23

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

Sample Log-In Check List

	Website: www.ha	lienvironmer	1101.com		
Client Name: GHD Midland	Work Order Number:	2311162		RcptNo:	1
Received By: Tracy Casarrubias	11/3/2023 7:55:00 AM				
Completed By: Tracy Casarrubias	11/3/2023 8:29:05 AM				
Reviewed By: 71413/23					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples	2	Yes 🗹	No 🗔	NA 🗌	
o. Was an allempt made to cool the samples	ſ				
4. Were all samples received at a temperatur	e of >0° C to 6.0°C	Yes 🗹	Νο	na 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test	(s)?	Yes 🗹	No 🗌		
7_{\cdot} Are samples (except VOA and ONG) prope	erly 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	ken?	Yes □	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	bottles checked for pH:	>12 unless noted)
12. Are matrices correctly identified on Chain of	of Custody?	Yes 🗹	No 🗌	Adjusted?	,
13. Is it clear what analyses were requested?	-	Yes 🗹	No 🗌		1000 1.101
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	211 13
Special Handling (if applicable)					
15. Was client notified of all discrepancies wit	h this order?	Yes 🗌	No 🗌	NA 🗹	-
Person Notified:	Date:		and the state of the		
By Whom:	Via: [] eMail [] Phone 📋 Fax	In Person	
Regarding:					
Client Instructions: Mailing address	s is missing on COC- TMC	11/3/23			
16. Additional remarks:					
17. Cooler Information					
		Seal Date	Signed By		
1 1.3 Good Y	'es Yogi				

Received by OCD: 5/22/2024 9:54:26 AM

Received by OCD: 5/22/2024 9:54:26 AM

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	CI	nain-	of-Cu	stody Record	Turn-Around						н	AL	L	Eľ	v	IR	0	NM	1E	NT	AL	
Clier	nt: /	Any	Barn	.hill	□ Standard	Rush	3. Day nstool CBT				A	NA	AL'	YS	IS	L	AB	80	RA	TO	R	Y
					Project Name	Balad	astral (BT				١	www	.hall	envi	ronn	nent	al.co	m				
Maili	ing A	ddress	1.		Chevro		and the the		490	01 H	awkiı	ns N	E -					VI 87				
					Project #:	6200	35		Te	el. 50	5-34	5-39		_		Contract Income		4107	7			
Pho	ne #	: 43:	2-68	7-7108					0						SIS	Req	uest ⊋					
			4Barnt	ill Ochevron.com	Project Manager: Repecca Pons Tristanca Cropo			021)	R	s.		S		, SO4			sen					
QA/QC Package:			Repec	ca Pon	San Creer	s (8(20	BC		SIN		PO4,			ITAL							
□ Standard □ Level 4 (Full Validation Accreditation: □ Az Compliance				Show		TMB's (8021)	/ DRO / MRO	082	,	8270		NO ₂ ,		n st	eser		-					
			□ A2 00		On Ice:	Yes	□ No yogi		NS/	Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	s	3, 1	din C	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
	DD	(Type)			# of Coolers:			MTBE	D(@	ticid	thod	831	Meta	ž	(A)	mi-V	iforn					
					Cooler Lemp	(Including CF): 13	-0-1.0 (0)		TPH:8015D(6RO	Pes	(Me	s by	RCRA 8 Metals	CU, Br, NO ₃ ,	8260 (VOA)	(Se	<u>8</u>					
					Container	Preservative	HEAL No.	BLEN	.Hd	8081		ÅΪ	SCR	Þ	3260	3270	[otal	-				
Date			Matrix	Sample Name	Type and #	Туре	2311162	X				<u> </u>	-	X					-			
1111	23	1120	5	TT GFt	Swii T	NA	001	1	X					Î		-			22.23		-	
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		1307		5104			003	+	$\left \right $	<u> </u>			_	+							+	
		1309		5005			004	+	\vdash				-	-	-		-				+	
		1311	-	560 6			005	+	\vdash	-			line ree	+	2.11				-		+	-
		1520		54			006	┼┼	\vdash			Carry, Da	tet for 1			-					+	
		1522		65			- 700		1					1	100	1.2963	10100			\vdash	-	
	4	1574	V	58	J	Y	008	X	V				11110			11.5		-	-	\vdash	-+	
									-		- 10		1000			-	-	-	-	\vdash	-+	
													_		111		-				-+	
						(1) (1) (1)								100		-					-+	
Det		Time	Relinquis	Od by:	Received by:	Via:	Date Time	Re	 mark	(s: 6			244	17-	+0		la	m. 9	iers	do AF	@9	hdicar
Date		Time:		A	Acalesa		1/2/13 915	re	beca	:a.1	2015	G	gho	d.c	om	· `	t.n	nur	rey	Qyk	dica	hd,coi
Date		Time:	Relinquis	hed by:	Received by:	Via: Coure						1	-			0			1			
11/2/	13	1900	nu	-		2	11/8/73 7:55							i. Ir								

Released to the subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory, Inc. Date Reported:											
CLIENT: GHD Midland		Client Sample ID: S-1									
Project: Chevron Brininstool CBT		0	Collection Date: 10/23/2023 10:00:00 AM								
Lab ID: 2310C13-001	Matrix: SOIL		Received Date: 10/26/2023 7:30:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	RBC					
Chloride	2400	150	mg/Kg	50	10/31/2023 12:23:20 PM	78435					
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	PRD					
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/27/2023 4:50:25 PM	78420					
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2023 4:50:25 PM	78420					
Surr: DNOP	106	69-147	%Rec	1	10/27/2023 4:50:25 PM	78420					
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	JJP					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 3:27:19 PM	78414					
Surr: BFB	93.6	15-244	%Rec	1	10/30/2023 3:27:19 PM	78414					
EPA METHOD 8021B: VOLATILES					Analyst	JJP					
Benzene	ND	0.024	mg/Kg	1	10/30/2023 3:27:19 PM	78414					
Toluene	ND	0.048	mg/Kg	1	10/30/2023 3:27:19 PM	78414					
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 3:27:19 PM	78414					
Xylenes, Total	ND	0.097	mg/Kg	1	10/30/2023 3:27:19 PM	78414					
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/30/2023 3:27:19 PM	78414					

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

Page 1 of 0

Hall Environmental Analysis Laboratory, Inc. Date Reported:									
CLIENT:GHD MidlandProject:Chevron Brininstool CBTLab ID:2310C13-002	Matrix: SOIL	2 /23/2023 10:05:00 AM /26/2023 7:30:00 AM	[
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	KCB			
Chloride	510	60	mg/Kg	20	10/30/2023 6:42:16 PM	78435			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: PRD			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/27/2023 5:22:37 PM	78420			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/27/2023 5:22:37 PM	78420			
Surr: DNOP	103	69-147	%Rec	1	10/27/2023 5:22:37 PM	78420			
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: JJP			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/30/2023 4:37:58 PM	78414			
Surr: BFB	94.4	15-244	%Rec	1	10/30/2023 4:37:58 PM	78414			
EPA METHOD 8021B: VOLATILES					Analyst	: JJP			
Benzene	ND	0.025	mg/Kg	1	10/30/2023 4:37:58 PM	78414			
Toluene	ND	0.049	mg/Kg	1	10/30/2023 4:37:58 PM	78414			
Ethylbenzene	ND	0.049	mg/Kg	1	10/30/2023 4:37:58 PM	78414			
Xylenes, Total	ND	0.098	mg/Kg	1	10/30/2023 4:37:58 PM	78414			
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/30/2023 4:37:58 PM	78414			

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

Page 2 of 0

Hall Environmental	Analysis	Laboratory, Inc.
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Hall Environmental Analysis Laboratory, Inc. Date Reported:									
CLIENT: GHD Midland Project: Chevron Brininstool CBT Lab ID: 2310C13-003	Client Sample ID: S-3 Collection Date: 10/23/2023 10:10:00 A Matrix: SOIL Received Date: 10/26/2023 7:30:00 AN								
Lab ID: 2310C13-003 Analyses	Result		Qual Units		Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: KCB			
Chloride	980	60	mg/Kg	20	10/30/2023 6:54:40 PM	78439			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: PRD			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/27/2023 5:33:24 PM	78420			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2023 5:33:24 PM	78420			
Surr: DNOP	102	69-147	%Rec	1	10/27/2023 5:33:24 PM	78420			
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	: JJP			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/30/2023 5:48:32 PM	78414			
Surr: BFB	94.0	15-244	%Rec	1	10/30/2023 5:48:32 PM	78414			
EPA METHOD 8021B: VOLATILES					Analyst	: JJP			
Benzene	ND	0.023	mg/Kg	1	10/30/2023 5:48:32 PM	78414			
Toluene	ND	0.047	mg/Kg	1	10/30/2023 5:48:32 PM	78414			
Ethylbenzene	ND	0.047	mg/Kg	1	10/30/2023 5:48:32 PM	78414			
Xylenes, Total	ND	0.094	mg/Kg	1	10/30/2023 5:48:32 PM	78414			
Surr: 4-Bromofluorobenzene	99.8	39.1-146	%Rec	1	10/30/2023 5:48:32 PM	78414			

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

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Hall Environmental Analysi	s Laboratory, I	nc.			Date Reported:			
CLIENT: GHD Midland		Client Sample ID: S-6						
Project: Chevron Brininstool CBT		Co	ollection Date	e: 10	/23/2023 3:00:00 PM			
Lab ID: 2310C13-004	Matrix: SOIL	R	Received Date	e: 10	/26/2023 7:30:00 AM			
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	КСВ		
Chloride	1100	60	mg/Kg	20	10/30/2023 7:07:05 PM	78439		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	PRD		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/27/2023 5:44:08 PM	78420		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2023 5:44:08 PM	78420		
Surr: DNOP	105	69-147	%Rec	1	10/27/2023 5:44:08 PM	78420		
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	JJP		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/30/2023 6:11:57 PM	78414		
Surr: BFB	95.7	15-244	%Rec	1	10/30/2023 6:11:57 PM	78414		
EPA METHOD 8021B: VOLATILES					Analyst	JJP		
Benzene	ND	0.023	mg/Kg	1	10/30/2023 6:11:57 PM	78414		
Toluene	ND	0.046	mg/Kg	1	10/30/2023 6:11:57 PM	78414		
Ethylbenzene	ND	0.046	mg/Kg	1	10/30/2023 6:11:57 PM	78414		
Xylenes, Total	ND	0.093	mg/Kg	1	10/30/2023 6:11:57 PM	78414		
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	10/30/2023 6:11:57 PM	78414		

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

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Hall Environmental	Analysis	Laboratory, Inc.
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Hall Environmental Analysi	s Laboratory, I	nc.			Date Reported:		
CLIENT: GHD Midland		Client Sample ID: S-7					
Project: Chevron Brininstool CBT	Collection Date: 10/23/2023 1:00:00 PM						
Lab ID: 2310C13-005	Matrix: SOIL	R	leceived Dat	e: 10	0/26/2023 7:30:00 AM		
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	КСВ	
Chloride	990	59	mg/Kg	20	10/30/2023 8:21:32 PM	78439	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	PRD	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/27/2023 5:54:55 PM	78420	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2023 5:54:55 PM	78420	
Surr: DNOP	105	69-147	%Rec	1	10/27/2023 5:54:55 PM	78420	
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	JJP	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 6:35:28 PM	78414	
Surr: BFB	97.1	15-244	%Rec	1	10/30/2023 6:35:28 PM	78414	
EPA METHOD 8021B: VOLATILES					Analyst	JJP	
Benzene	ND	0.024	mg/Kg	1	10/30/2023 6:35:28 PM	78414	
Toluene	ND	0.048	mg/Kg	1	10/30/2023 6:35:28 PM	78414	
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 6:35:28 PM	78414	
Xylenes, Total	ND	0.096	mg/Kg	1	10/30/2023 6:35:28 PM	78414	
Surr: 4-Bromofluorobenzene	104	39.1-146	%Rec	1	10/30/2023 6:35:28 PM	78414	

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

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Hall Environmental Analys	sis Laboratory, Inc.
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Hall Environmental Analysi	s Laboratory, l	Inc.			Date Reported:		
CLIENT: GHD Midland Project: Chevron Brininstool CBT		Client Sample ID: SW-1 Collection Date: 10/23/2023 10:15:00 AM					
Lab ID: 2310C13-006	Matrix: SOIL Received Date: 10/26/2023 7:30:0					L	
Analyses	Result	RL Qual Units		DF Date Analyzed		Batch	
EPA METHOD 300.0: ANIONS					Analyst	KCB	
Chloride	640	60	mg/Kg	20	10/30/2023 8:33:57 PM	78439	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: PRD	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/27/2023 6:05:43 PM	78420	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/27/2023 6:05:43 PM	78420	
Surr: DNOP	108	69-147	%Rec	1	10/27/2023 6:05:43 PM	78420	
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: JJP	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 6:58:58 PM	78414	
Surr: BFB	94.5	15-244	%Rec	1	10/30/2023 6:58:58 PM	78414	
EPA METHOD 8021B: VOLATILES					Analyst	: JJP	
Benzene	ND	0.024	mg/Kg	1	10/30/2023 6:58:58 PM	78414	
Toluene	ND	0.048	mg/Kg	1	10/30/2023 6:58:58 PM	78414	
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 6:58:58 PM	78414	
Xylenes, Total	ND	0.096	mg/Kg	1	10/30/2023 6:58:58 PM	78414	
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/30/2023 6:58:58 PM	78414	

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

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Hall Environmental Analys	sis Laboratory, Inc.
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Hall Environmental Analysi	s Laboratory, I	nc.			Date Reported:		
CLIENT: GHD Midland	Cli	Client Sample ID: SW-2					
Project: Chevron Brininstool CBT	Collection Date: 10/23/2023 10:20:00 A						
Lab ID: 2310C13-007	Matrix: SOIL Received Date: 10/26/2023 7:30:00 AN						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	KCB	
Chloride	280	60	mg/Kg	20	10/30/2023 8:46:21 PM	78439	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: PRD	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/27/2023 6:16:31 PM	78420	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/27/2023 6:16:31 PM	78420	
Surr: DNOP	110	69-147	%Rec	1	10/27/2023 6:16:31 PM	78420	
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	: JJP	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/30/2023 7:22:30 PM	78414	
Surr: BFB	95.0	15-244	%Rec	1	10/30/2023 7:22:30 PM	78414	
EPA METHOD 8021B: VOLATILES					Analyst	: JJP	
Benzene	ND	0.025	mg/Kg	1	10/30/2023 7:22:30 PM	78414	
Toluene	ND	0.049	mg/Kg	1	10/30/2023 7:22:30 PM	78414	
Ethylbenzene	ND	0.049	mg/Kg	1	10/30/2023 7:22:30 PM	78414	
Xylenes, Total	ND	0.098	mg/Kg	1	10/30/2023 7:22:30 PM	78414	
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	10/30/2023 7:22:30 PM	78414	

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

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Hall Environmental Analysi	s Laboratory,	Inc.			Date Reported:		
CLIENT: GHD Midland Project: Chevron Brininstool CBT	Client Sample ID: S1-HA5' Collection Date: 10/24/2023 8:30:00 AM						
Lab ID: 2310C13-008	Matrix: SOIL	R	Received Dat	e: 10	/26/2023 7:30:00 AM		
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	КСВ	
Chloride	360	61	mg/Kg	20	10/30/2023 8:58:46 PM	78439	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	PRD	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/27/2023 6:27:20 PM	78420	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/27/2023 6:27:20 PM	78420	
Surr: DNOP	106	69-147	%Rec	1	10/27/2023 6:27:20 PM	78420	
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	JJP	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/30/2023 7:45:57 PM	78414	
Surr: BFB	95.7	15-244	%Rec	1	10/30/2023 7:45:57 PM	78414	
EPA METHOD 8021B: VOLATILES					Analyst	JJP	
Benzene	ND	0.025	mg/Kg	1	10/30/2023 7:45:57 PM	78414	
Toluene	ND	0.050	mg/Kg	1	10/30/2023 7:45:57 PM	78414	
Ethylbenzene	ND	0.050	mg/Kg	1	10/30/2023 7:45:57 PM	78414	
Xylenes, Total	ND	0.099	mg/Kg	1	10/30/2023 7:45:57 PM	78414	
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	10/30/2023 7:45:57 PM	78414	

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

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Hall Environmental Analysi	nc.	Date Reported:				
CLIENT: GHD Midland	Cli	Client Sample ID: TPS-N				
Project: Chevron Brininstool CBT		(Collection Dat	e: 10	/24/2023 8:35:00 AM	
Lab ID: 2310C13-009	Matrix: SOIL		Received Dat	e: 10	/26/2023 7:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	КСВ
Chloride	1600	60	mg/Kg	20	10/30/2023 9:11:11 PM	78439
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: PRD
Diesel Range Organics (DRO)	320	9.7	mg/Kg	1	10/27/2023 6:48:57 PM	78420
Motor Oil Range Organics (MRO)	270	49	mg/Kg	1	10/27/2023 6:48:57 PM	78420
Surr: DNOP	112	69-147	%Rec	1	10/27/2023 6:48:57 PM	78420
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/30/2023 8:09:23 PM	78414
Surr: BFB	93.1	15-244	%Rec	1	10/30/2023 8:09:23 PM	78414
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	ND	0.025	mg/Kg	1	10/30/2023 8:09:23 PM	78414
Toluene	ND	0.049	mg/Kg	1	10/30/2023 8:09:23 PM	78414
Ethylbenzene	ND	0.049	mg/Kg	1	10/30/2023 8:09:23 PM	78414
Xylenes, Total	ND	0.098	mg/Kg	1	10/30/2023 8:09:23 PM	78414
Surr: 4-Bromofluorobenzene	99.4	39.1-146	%Rec	1	10/30/2023 8:09:23 PM	78414

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

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Hall Environmental Analysis Laboratory, Inc.		1C.	Date Reported:			
CLIENT: GHD Midland		Clie	ent Sample II): TP	S-S	
Project: Chevron Brininstool CBT		Co	ollection Date	e: 10/	24/2023 8:40:00 AM	
Lab ID: 2310C13-010	Matrix: SOIL	F	Received Date	e: 10/	26/2023 7:30:00 AM	
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	RBC
Chloride	4800	300	mg/Kg	100	10/31/2023 1:00:32 PM	78439
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/27/2023 7:10:36 PM	78420
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2023 7:10:36 PM	78420
Surr: DNOP	106	69-147	%Rec	1	10/27/2023 7:10:36 PM	78420
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2023 8:32:49 PM	78414
Surr: BFB	96.6	15-244	%Rec	1	10/30/2023 8:32:49 PM	78414
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.024	mg/Kg	1	10/30/2023 8:32:49 PM	78414
Toluene	ND	0.048	mg/Kg	1	10/30/2023 8:32:49 PM	78414
Ethylbenzene	ND	0.048	mg/Kg	1	10/30/2023 8:32:49 PM	78414
Xylenes, Total	ND	0.095	mg/Kg	1	10/30/2023 8:32:49 PM	78414
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	10/30/2023 8:32:49 PM	78414

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

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Released to Imaging: 6/13/2024 9:56:30 AM

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

QUESTIONS

Action 346411

QUESTIONS			
Operator: CHEVRON U S A INC	OGRID: 4323		
6301 Deauville Blvd Midland, TX 79706	Action Number: 346411		
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)		

QUESTIONS Droroguioitoo

Frerequisites	
Incident ID (n#)	nAPP2319355921
Incident Name	NAPP2319355921 BRINNINSTOOL TANK BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2130435543] Brinninstool Tank Battery

Location of Release Source

Please answer all the questions in this group.		
Site Name	BRINNINSTOOL TANK BATTERY	
Date Release Discovered	07/09/2023	
Surface Owner	Private	

Incident Details

Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο	
Has this release endangered or does it have a reasonable probability of endangering public health	Νο	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission Crude Oil Released (bbls) Details Not answered. Cause: Equipment Failure | Water Tank | Produced Water | Released: 17 BBL | Recovered: 0 Produced Water Released (bbls) Details BBL | Lost: 17 BBL Is the concentration of chloride in the produced water >10,000 mg/l Yes Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

QUESTIONS, Page 2

Action 346411

QUESTIONS (continued)			
Operator:	OGRID:		
CHEVRON U S A INC	4323		
6301 Deauville Blvd	Action Number:		
Midland, TX 79706	346411		
	Action Type:		
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)		

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response

The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/22/2024

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QUESTIONS, Page 3

Action 346411

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	346411
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Greater than 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan

		o the appropriate district office no later than 90 days after the release discovery date.
Please answer all the questions th	nat apply or are indicated. This information must be provided to	
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contaminatio	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in m	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	9800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	590
GRO+DRO	(EPA SW-846 Method 8015M)	320
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
BIER	(2.7.011010100002120102002)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Benzene Per Subsection B of 19.15.29.11 N which includes the anticipated tim	(EPA SW-846 Method 8021B or 8260B) IMAC unless the site characterization report includes complete elines for beginning and completing the remediation.	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Benzene Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wil	(EPA SW-846 Method 8021B or 8260B) IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. II the remediation commence	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 10/23/2023
Benzene Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wii On what date will (or did) th	(EPA SW-846 Method 8021B or 8260B) IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence he final sampling or liner inspection occur	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 10/23/2023 10/23/2023
Benzene Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wii On what date will (or did) th On what date will (or was) t	(EPA SW-846 Method 8021B or 8260B) IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence the final sampling or liner inspection occur the remediation complete(d)	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 10/23/2023 10/23/2023 11/22/2023
Benzene Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wil On what date will (or did) th On what date will (or was) the What is the estimated surface	(EPA SW-846 Method 8021B or 8260B) IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence he final sampling or liner inspection occur	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 10/23/2023 10/23/2023
Benzene Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wil On what date will (or did) th On what date will (or was) the What is the estimated surfate What is the estimated volume	(EPA SW-846 Method 8021B or 8260B) IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. Il the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed	0 ad efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 10/23/2023 10/23/2023 11/22/2023 0
Benzene Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wil On what date will (or did) th On what date will (or was) th What is the estimated surfated What is the estimated volum What is the estimated surfated What is the estimated s	(EPA SW-846 Method 8021B or 8260B) IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. II the remediation commence the final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed me (in cubic yards) that will be reclaimed	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 10/23/2023 10/23/2023 11/22/2023 0 0

le party h sp significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 346411

QUEST	IONS (continued)	
Operator:	OGRID:	
CHEVRON U S A INC	4323	
6301 Deauville Blvd	Action Number:	
Midland, TX 79706	346411	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ei which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/22/2024	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in acc significantly deviate from the remediation plan proposed, then it should consult with the division to c	ordance with the physical realities encountered during remediation. If the responsible party has any need to letermine if another remediation plan submission is required.	

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

QUESTIONS, Page 5

Action 346411

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	346411
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only			
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.			
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes		
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes		
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	the area immediately under the 3-phase separator will be remediated at a point in time that the facility is either decommissioned or plug and abandoned		
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	375		
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	70		
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or v the well or facility is plugged or abandoned, whichever comes first.			
Enter the facility ID (f#) on which this deferral should be granted	Brinninstool Tank Battery [fAPP2130435543]		
Enter the well API (30-) on which this deferral should be granted	Not answered.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.			
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.			
	transition any section		

Email:	: Waste & Water Specialist il: ABarnhill@chevron.com :: 05/22/2024
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QUESTIONS, Page 6

Action 346411

QUESTIONS (continued)		
Operator:	OGRID:	
CHEVRON U S A INC	4323	
6301 Deauville Blvd	Action Number:	
Midland, TX 79706	346411	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	346572	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/23/2023	
What was the (estimated) number of samples that were to be gathered	17	
What was the sampling surface area in square feet	1600	

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.			
Requesting a remediation closure approval with this submission	Yes		
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	No		
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes		
What was the total surface area (in square feet) remediated	1225		
What was the total volume (cubic yards) remediated	210		
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes		
What was the total surface area (in square feet) reclaimed	0		
What was the total volume (in cubic yards) reclaimed	0		
Summarize any additional remediation activities not included by answers (above)	the area immediately under the 3-phase separator will be remediated at a point in time that the facility is either decommissioned or plug and abandoned		
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 (in .pdf format) 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.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.			

Thereby agree and sign on to the above statement	k Water Specialist hill@chevron.com
Date: 05/22/20	024

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QUESTIONS, Page 7

Action 346411

QUESTIONS (continued) Operator: OGRID: CHEVRON US A INC 4323 6301 Deauville Blvd Action Number: Midland, TX 79706 346411 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission No

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CONDITIONS

Action 346411

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	346411
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	6/13/2024