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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2112353281
District RP	
Facility ID	
Application ID	

#### **Release Notification**

#### **Responsible Party**

·			OGRID 73	377				
Contact Name Chase Settle			Contact Te	elephone 575-7	748-1471			
Contact email Chase_Settle@eogresources.com			Incident #	(assigned by OCD)				
Contact mail	ing address	104 S. 4th Stı	reet, Artesia,	NM 88	38210			
					delease So	ource		
Latitude 32.	86529				Longitude	-103.92736		
			(NAD 83 in 6	decimal de	grees to 5 decin	nal places)		
Site Name Ja	ackson B	#33			Site Type	Oil Well		
Date Release	Discovered	04/19/2021				plicable) 30-015-	-23807	
	1 -							
Unit Letter	Section	Township	Range		Coun	nty	 	
F	1	17S	30E	Edd	у			
	Materia		Nature ar	nd Vo		justification for the	volumes provided below	)
Crude Oi			<sup>ed (bbls)</sup> Unkno			Volume Recov		
☑ Produced	Water		<sup>ed (bbls)</sup> Unkno			Volume Recov		
Is the concentration of dissolved chloride produced water >10,000 mg/l?			e in the	Yes No				
Condensa	ate	Volume Release	ed (bbls)			Volume Recov	vered (bbls)	
Natural Gas Volume Released (Mcf)			Volume Reco	vered (Mcf)				
Other (de	escribe)	Volume/Weight	t Released (provi	de units	)	Volume/Weig	ght Recovered (provi	de units)
Cause of Rel	<sup>ease</sup> Unkno discov	own historical reversed on the we	elease, no kno ell pad.	own vo	lume or da	ate. During Pa	&A activities, sta	ined soil was

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Form C-141	State of New Mexico
Page 2	Oil Conservation Division

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Was this a major release as defined by	onsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☑ No	
If YES, was immediate notice given to the OCD? By whom? To w	shom? When and by what means (phone email etc.)?
in 125, was infinediate notice given to the OCD. By whom: 10 w	moin: when and by what means (phone, eman, etc):
Initial F	Response
The responsible party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
✓ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health an	d the environment.
Released materials have been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed a	nd managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain	why:
	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr
Signature: Chan Settle	Date: 05/03/2021
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471
OCD Only	
Received by:	Date:

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Incident ID	nAPP2112353281
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Facility ID	
Application ID	

#### **Site Assessment/Characterization**

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

>100 (ft bgs)			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
☐ Yes ☑ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> <li>✓ Laboratory data including chain of custody</li> </ul>			

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

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Incident ID	nAPP2112353281
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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: Chase Settle	Title: Rep Safety & Environmental Sr		
Signature: The Sittle	Date: 08/31/2021		
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471		
OCD Only			
Received by:	Date:		

reived by OCD: 9/1/2021 10:18:19 AM
State of New Mexico

Incident ID	nAPP2112353281
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Application ID	

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.				
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation points</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>				
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr			
Signature: Sittle	Date: _08/31/2021			
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471			
OCD Only				
Received by:	Date:			
☐ Approved ☐ Approved with Attached Conditions of	Approval			
Signature:	Date:			

2135 S. Loop 250 W, Midland, Texas 79703 United States www.ghd.com



Our ref: 11228405

August 27, 2021

New Mexico Oil Conservation Division District 2 811 South First Street Artesia, New Mexico 88210

Re: Site Characterization and Remediation Work Plan

Jackson B #33 Release Site

**EOG** Resources Inc.

Incident ID: nAPP2112353281

F-01-17S-30E, Eddy County, New Mexico

To Whom It May Concern:

#### 1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Jackson B #33 Release Site (Site). The Site is located in Unit Letter F Section 01 of Township 17 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.86529 N latitude and 103.92736 W longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2.

#### 2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on May 3, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former oil well appeared to be discolored and after discussions between field personnel and environmental staff – EOG made the decision to go ahead and file a C-141 for this suspect release location.

The Initial Form C-141, Site Assessment/Characterization and Remediation Plan portions of Form C-141 for Incident Number nAPP2112353281 are attached to the front of this report.

#### 3. Groundwater and Site Characterization

GHD characterized the Site according to Table 1, 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). The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico.

On May 18, 2021, Talon LPE (Talon) installed a temporary well, Jackson B #59, at the following GPS Coordinates, 32.85697 N latitude and 103.92703 W longitude to approximately 125 feet below ground surface (bgs.) which is located approximately 0.5 miles from the Site. The Jackson B #59 Temp Well was left open for 72 hours and a water level meter was utilized to determine the presence or absence of groundwater. No groundwater was detected, and the temporary well was plugged and abandoned. Depth to groundwater for this Site is greater than one hundred (100) feet bgs. No other receptors (karst potential areas, water wells, playas, wetlands, waterways, lakebeds 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)(a)(i) the Site is located within an area with depth to groundwater greater than one hundred (100) feet and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table 1 in NMAC 19.15.29.12. The Site characterization documentation (Talon's Temporary Well Log, Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
No Receptors Found	>100'

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Constituent	Limits
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Benzene	10mg/kg
BTEX	50 mg/kg

### 4. Initial Soil Delineation Assessment Summary and Findings

On May 3, 2021, GHD Services Inc. (GHD), on behalf of EOG, installed four (4) hand borings within the suspected impacted area. Soil samples were collected at two (2) and four (4) feet bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated HA1, HA2, and HA4 exhibited chloride concentrations above 600 mg/kg in the first four (4) feet and that additional delineation was needed at the Site. None of the samples exhibited benzene, BTEX or TPH above Table 1 closure criteria.

On May 24, 2021, GHD Services Inc. (GHD) and EOG's contractor BDS Enterprises, LLC (BDS), on behalf of EOG, installed eight (8) test pits (TP1 through TP8) within the area around the former oil well. The test pit locations were excavated to depths ranging from surface to approximately twenty (20) feet bgs. Soil samples

→ The Power of Commitment

were collected from varying depths of the test pits and field screened for chloride and hydrocarbons. Select samples were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated test pits TP1, TP3, TP4, TP5, TP6 and TP-7 exhibited TPH and/or chlorides above 100 mg/kg and 600 mg/kg, respectively, in the first four (4) feet and additional delineation was needed at the site. None of the samples exhibited benzene or BTEX above Table 1 closure criteria.

GHD and Culberson Construction Energy Services (CCI) returned to the site on June 28, 2021, to further delineate the site. An additional seven test pits were installed, TP9 through TP15, and additional samples were collected from TP4, TP6, and TP7. The test pit locations were excavated to depths ranging from surface to approximately twelve (12) feet bgs. Soil samples were collected from varying depths of the test pits and field screened for chloride and hydrocarbons. Select samples were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated chloride concentration above 600 mg/kg in the first four (4) feet in test pits TP9 and TP11. None of the samples exhibited benzene, BTEX or TPH above Table 1 closure criteria.

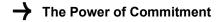
On July 21, 2021, GHD and Talon returned to the site to install a soil boring near TP5 to fully delineate the release to less than 100 mg/kg for TPH concentrations and 600 mg/kg for chloride concentrations. The soil boring was installed to a depth of one hundred (100) feet bgs. Samples were collected every five (5) feet with the exception of at fifty (50) feet because the boring collapsed and had to be cleared out. Soil samples were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. TPH concentrations were delineated to below 100 mg/kg at eighty-five (85) feet bgs and chloride concentrations were delineated to below 600 mg/kg at ninety (90) feet bgs. The TP-5 Soil Boring Log is provided as Attachment B.

Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

#### 5. nAPP112353281 Proposed Work Plan

None of the samples collected exhibited benzene, BTEX, TPH or chloride concentrations above the closure criteria for a depth to groundwater over one hundred (100) feet bgs. The oil well has been plugged and the area is no longer being utilized by operations. There are TPH and chloride concentrations over 100 mg/kg and 600 mg/kg, respectively, within the first four (4) feet in the area shown on Figure 2. In order to comply with NMAC 19.15.29.13(D)(1), areas HA1 through HA4, TP1, TP3, TB5, TP7, TP9, and TP11 will be excavated to four (4) feet bgs. Areas TP4 and TP6 will be excavated to a depth where chlorides are less than 600 mg/kg or four (4) feet bgs.

Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing area no larger than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls if any staining is observed. No confirmation samples will be collected from the bottom of the excavation as the site is already vertically delineated. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.



Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 2,000 cubic yards. The excavation will be backfilled with non-impacted soil transported to the site. The remediation will be performed within 90 days after the work plan has been approved. A closure report will be prepared to document remediation activities and submitted to the NMOCD when remediation activities have been completed.

If you have any questions or comments concerning this Site Characterization and Closure Report, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

**GHD** 

Becky Haskell

Senior Project Manager

Thomas C. Larson, M.S. Midland Operation Manager

Thomas Clayon

BH/tl/1

Encl. Figure 1 – Site Location Map

Rebecca Haskell

Figure 2 – Site Assessment Soil Analytical Results Map

Table 1 – Summary of Soil Analytical Data

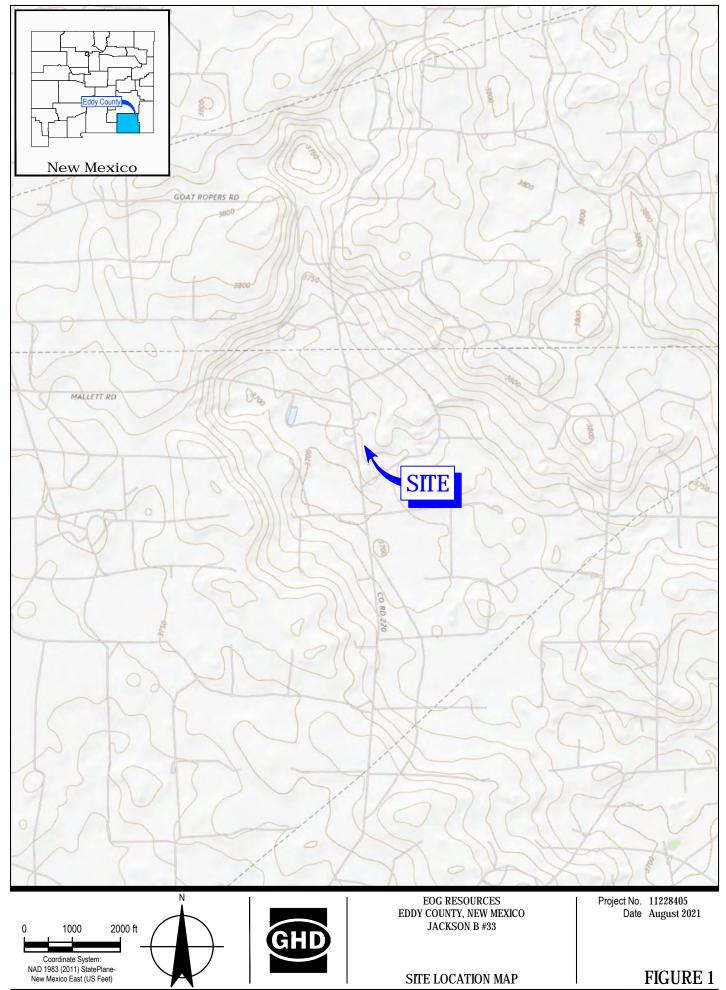
Attachment A – Site Characterization Documentation

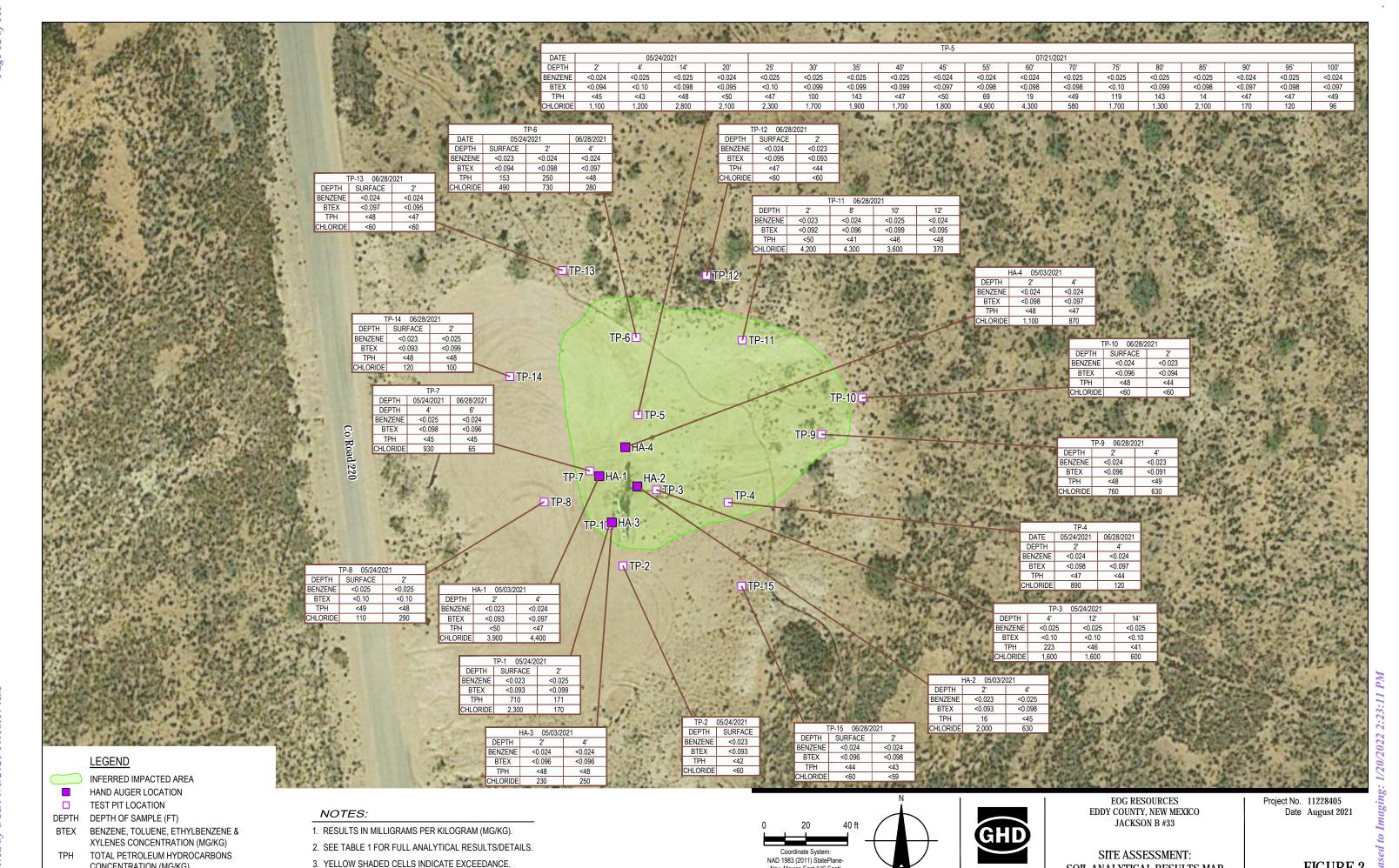
Attachment B - TP-5 Soil Boring Log

Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle

Figures





New Mexico East (US Feet)

CONCENTRATION (MG/KG)

SOIL ANALYTICAL RESULTS MAP

FIGURE 2

Tables

# Table 1 Summary of Soil Analytical Data Jackson B #33 EOG Resources Eddy County, New Mexico

										ТРН		
	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
				<u> </u>	Table I Cl	osure Criteria	for Soils <50 fe		oundwater 19.15	5.29 NMAC		
			10 mg/Kg				50 mg/Kg	1,000	mg/Kg		2,500 mg/Kg	20,000 mg/Kg
			1	1	1	sessment Samp		1	1	T		T
HA1-2	5/3/21	2'	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<10	<50	<50	3,900
HA1-4	5/3/21	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.3	<47	<47	4,400
HA2-2	5/3/21	2'	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	16	<49	16	2,000
HA2-4	5/3/21	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.0	<45	<45	630
HA3-2	5/3/21	2'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<48	230
HA3-4	5/3/21	4'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	250
HA4-2	5/3/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	1,100
HA4-4	5/3/21	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<47	<47	870
		1			Tes	t Pit Samples						
TP1-S	5/24/21	Surface	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	210	500	710	2,300
TP1-2	5/24/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	51	120	171	170
TP2-S	5/24/21	Surface	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<8.5	<42	<42	<60
TP3-4	5/24/21	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	93	130	223	1,600
TP3-12	5/24/21	12'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<46	<46	1,600
TP3-14	5/24/21	14'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.3	<41	<41	600
TP4-2	5/24/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<47	890
TP4-4	6/28/21	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<8.9	<44	<44	120
TP5-2	5/24/21	2'	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.0	<45	<45	1,100
TP5-4	5/24/21	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.6	<43	<43	1,200
TP5-14	5/24/21	14'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	2,800
TP5-20	5/24/21	20'	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<50	<50	2,100
TP5-25	7/21/21	25'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<47	2,300
TP5-30	7/21/21	30'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	27	73	100	1,700
TP5-35	7/21/21	35'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	61	82	143	1,900
TP5-40	7/21/21	40'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<47	<47	1,700
TP5-45	7/21/21	45'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	1,800
TP5-55	7/21/21	55'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	21	48	69	4,900
TP5-60	7/21/21	60'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	19	<50	19	4,300
TP5-70	7/21/21	70'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	580
TP5-75	7/21/21	75'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	21	98	119	1,700

## Table 1 Summary of Soil Analytical Data Jackson B #33 EOG Resources Eddy County, New Mexico

										ТРН		
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO	DRO	MRO	Total	Chloride
Sample ID	Sample	Depth	(mm m (1/5 m)	(ma m (M/m)	(mm m/100 m)	(mm m/16 m)	(mg/Kg)	(C6-C10)	(C10-C28)	(C28-C35)	GRO/DRO/MRO	(m = 1/4 m)
	Date	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg) Table I Cl	(mg/Kg) losure Criteria	· · · · · · · · · · · · · · · · · · ·	(mg/Kg) eet Depth to Gro	(mg/Kg) oundwater 19.15	(mg/Kg) .29 NMAC	(mg/Kg)	(mg/Kg)
			10 mg/Kg				50 mg/Kg	1,000	mg/Kg		2,500 mg/Kg	20,000 mg/Kg
TP5-80	7/21/21	80'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	33	110	143	1,300
TP5-85	7/21/21	85'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	14	<48	14	2,100
TP5-90	7/21/21	90'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.3	<47	<47	170
TP5-95	7/21/21	95'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	120
TP5-100	7/21/21	100'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	96
TP6-S	5/24/21	Surface	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	13	140	153	490
TP6-2	5/24/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	30	220	250	730
TP6-4	6/28/21	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	280
TP7-4	5/24/21	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.0	<45	<45	930
TP7-6	6/28/21	6'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.9	<45	<45	65
TP8-S	5/24/21	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	110
TP8-2	5/24/21	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	290
TP9-2	6/28/21	2'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	760
TP9-4	6/28/21	4'	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.7	<49	<49	630
TP10-S	6/28/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
TP10-2	6/28/21	2'	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<8.9	<44	<44	<60
TP11-2	6/28/21	2'	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.9	<50	<50	4,200
TP11-8	6/28/21	8'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.2	<41	<41	4,300
TP11-10	6/28/21	10'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	3,600
TP11-12	6/28/21	12'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.7	<48	<48	370
TP12-S	6/28/21	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<47	<47	<60
TP12-2	6/28/21	2'	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<8.7	<44	<44	<60
TP13-S	6/28/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	<60
TP13-2	6/28/21	2'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.4	<47	<47	<60
TP14-S	6/28/21	Surface	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.6	<48	<48	120
TP14-2	6/28/21	2'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<48	100
TP15-S	6/28/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<44	<44	<60
TP15-2	6/28/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.6	<43	<43	<59

Notes:

#### Table 1 **Summary of Soil Analytical Data** Jackson B #33 **EOG Resources Eddy County, New Mexico**

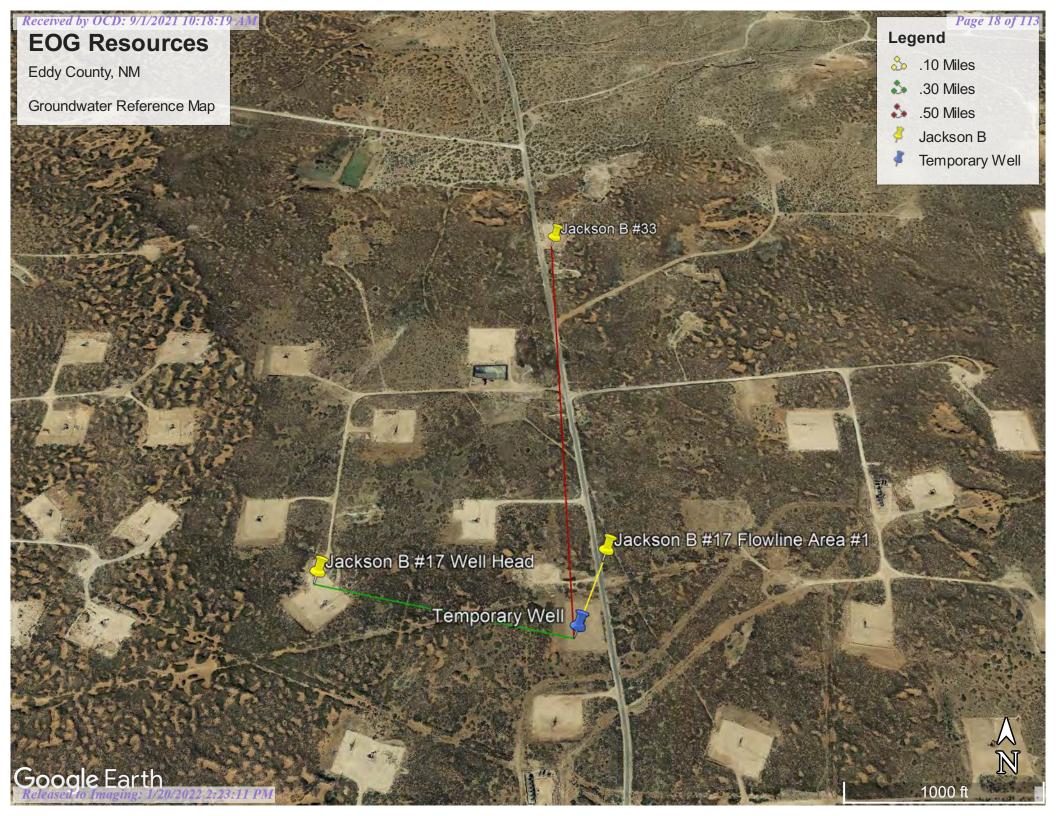
					Ja EO	Table 1 of Soil Analytic ckson B #33 G Resources ounty, New Mex						
TPH										ТРН		
	Sample	Denth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
Sample ID	Sample Date	Depth (feet bgs)						(C6-C10)	(C10-C28)	(C28-C35)	GRO/DRO/MRO	
Sample ID		Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(C6-C10) (mg/Kg)		(C28-C35) (mg/Kg)		Chloride (mg/Kg)

- 4 BTEX analyses by EPA Method SW 8021B.

Sample Point Excavated

- 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 NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
- 8. J the target analytes was positively identified below the quantitation limit and above the detection limit.

# Attachment A Site Characterization Documentation





## TALON

#### **BORING LOG**

Project No.: 700438.238.01

Weather: Clear, Temp.: 75°F

Driller: D. Londagin

Site Name: Jackson B #59

Logger: D. Adkins

Rig Type: Reich Drill

Location: Eddy County, New Mexico

Field Instrument: NA

Bit Size: 5-7/8"

Date: 5/18/2021

Latitude: 32.85697 N

Drilling Method: Air Rotary

Boring Number: B-1 Longitude: -103.92703 W Sample Retrieval Method: Drill Cuttings

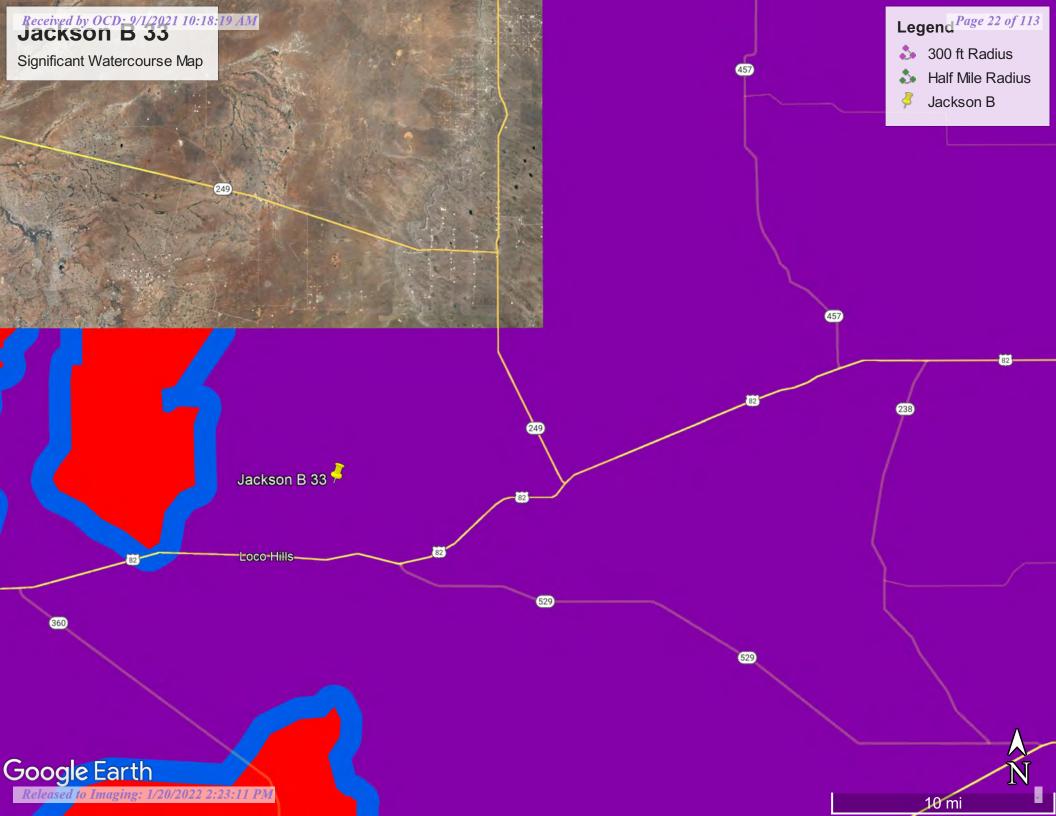
Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	uscs	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
							None	
		0-30'				Red/brown fine Sand (SP)	Slight	
							Mod. Strong	
						Red/brown fine Sand (SP) with varying amounts of silt and	None	
		30-40'				caliche	Slight	
						Calicile	Mod. Strong	
							<u>None</u>	
		40-80'				Dry, dark red/brown sandy Silts (SM)	Slight Mod.	
							Strong	
							<u>None</u>	
		80-125'				Red/brown fine Sand (SP)	Slight Mod.	
							Strong	
							None	
						TD 135'	Slight	
						TD 125′	Mod.	
							Strong None	
							Slight	
							Mod.	
							Strong	
							None Slight	
							Mod.	
							Strong	
							None	
							Slight Mod.	
							Strong	
							None	
							Slight	
							Mod. Strong	
							None	
							Slight	
							Mod.	
							Strong None	
							Slight	
							Mod.	
							Strong	
							None Slight	
							Mod.	
							Strong	
	e Eleva Grour		ot Encour		l @ 125' BGS	S – 72 hr. Logger Initials:	DJA	

Page \_\_\_\_\_ of \_\_\_\_

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	uscs	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
1	Lab (	Sa Int	Sa Rec	'n	) Comp			PID
							None Slight	
							Mod.	
							Strong	
							None Slight	
							Mod.	
							Strong	
							None	
							Slight Mod.	
							Strong	
							None	
							Slight	
							Mod.	
							Strong None	
							Slight	
							Mod.	
							Strong	
							None	
							Slight Mod.	
							Strong	
							None	
							Slight	
							Mod.	
							Strong None	
							Slight	
							Mod.	
							Strong	
							None Slight	
							Mod.	
							Strong	
							None	
							Slight Mod.	
							Strong	
							None	
							Slight	
							Mod. Strong	
							None	
							Slight	
							Mod.	
							Strong	
							None Slight	
							Mod.	
							Strong	
							None	
							Slight Mod.	
							Strong	
Notes							59	

The borehole was advanced to 125' below ground surface (bgs). A 2-inch diameter temporary well constructed of schedule 40 PVC thread coupled to 10-feet of machine slotted well screen was installed in the open borehole. 72-hours after installation, a Solinest water level meter was utilized to determine the presence or absence of groundwater. The temporary well casing was subsequently removed and the bore hole backfilled with hole plug (bentonite chips) and hydrated.

Page \_\_\_\_\_ of \_\_\_\_



### **OSE PUBLIC PRINT**



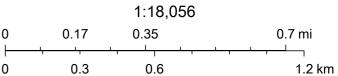
8/20/2021, 9:20:36 AM

OSE District Boundary

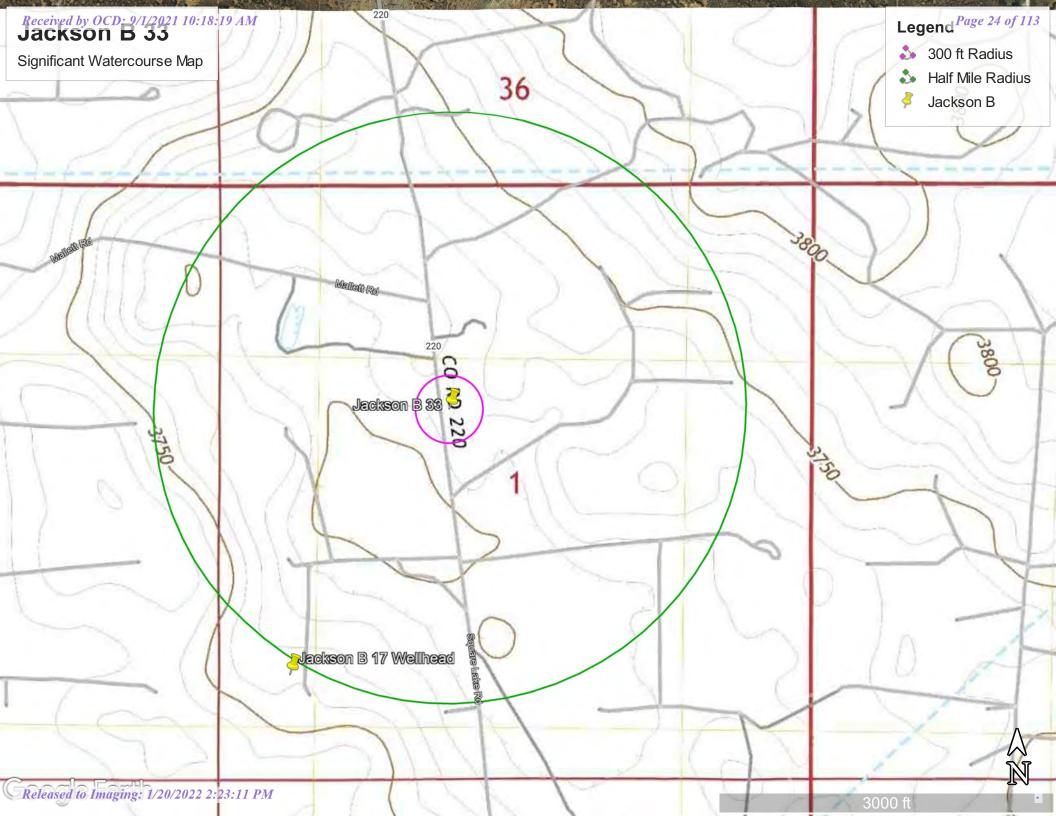
New Mexico State Trust Lands

Both Estates

SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar





#### EOG Jackson B #33



August 26, 2021

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

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.

## National Flood Hazard Layer FIRMette



Legend

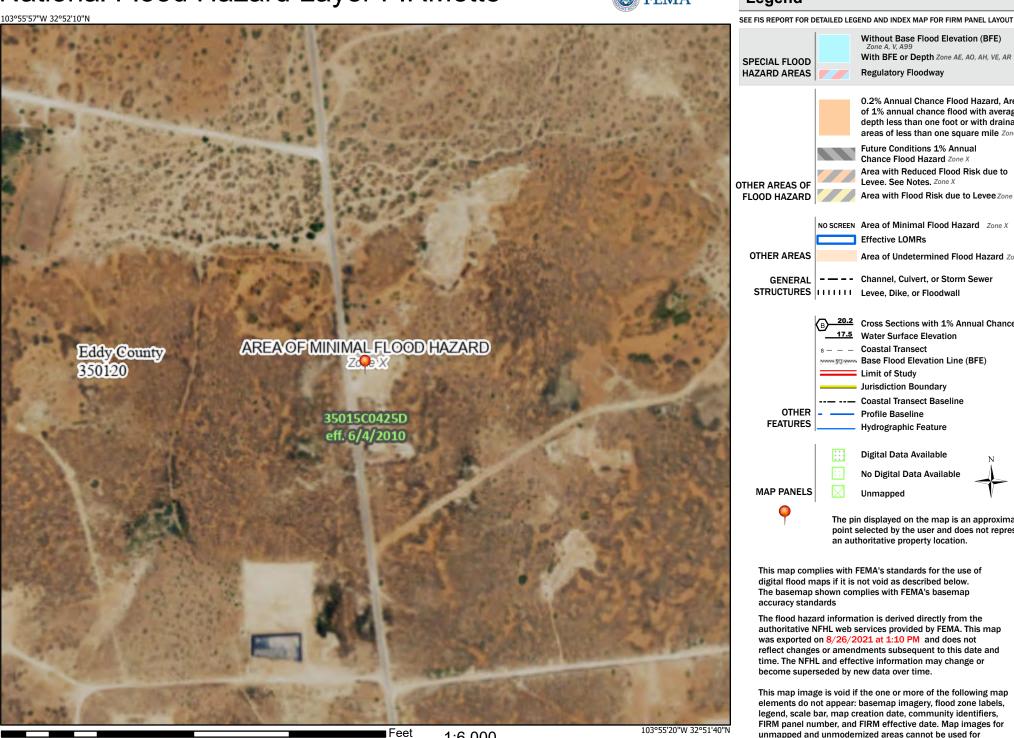
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/26/2021 at 1:10 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2.000

Attachment B Soil Boring Log

#### SOIL BORING STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: EOG Jackson B #33 PROJECT NUMBER:

TP-5 HOLE DESIGNATION:

11228405 CLIENT: EOG Resources. INC.

DATE COMPLETED: 21 July 2021 LOCATION: F-1-17S-30E, 32.866518, -103.927175 Eddy County, NM TEST PIT METHOD: Air Rotary

FIELD PERSONNEL: Lee M./Zach C.

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH m BGS			SAMF	PLE	
II BGS	START STRAT LOG @: 20 ft		111 0G3	NUMBER	INTERVAL	REC (%)	mS/cm	NaCI
	SAND, fine, with sandstone interbedded, brown, dry							
	·			20-25'		100	1490	
- 25				25-30'		100	1100	
- 30	- with partially consolidated sandstone, brown, dry from 32.50 to 37.00ft BGS			30-35'		100	2000	
- 35						-		
- 40	CLAYEY SAND, with partially consolidated sandstone throughout, dry		37.00	35-40'		100	1447	
				40-45'		100	1130	73
- 45	BORE collapsed and fell to 52.5 ft bgs	777	45.00	45-50'		0		
- 50						-		
- 55	SAND, brown and gray, dry		52.50	50-55'		100	1320	
- 60	- with consolidated sandstone, brown, dry from 57.50 to 90.00ft BGS			55-60'		100	2220	
00				60-65'		0		
65				65-70'		100	1232	
- 70				70-75'		100	980	
- 75							005	
- 70 - 75 - 80 - 85				75-80'		100	985	
- 85				80-85'		100	1750	
- 00	- with partially consolidated beds of sandstone, brown, dry from 90.00 to 100.00ft			85-90'		100	280	25
	BGS			90-95'		100	270	25
- 95				95-100′		100	110	
100	END OF BOREHOLE @ 100.00ft BGS	<u>EAG</u>	100.00					
105								
- 110								
- 115								
	NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVA	ATION TA	BLE					
	CHEMICAL ANALYSIS							

## Attachment C Laboratory Analytical Reports and Chain-of-Custody Documentation



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

May 11, 2021

Tom Larson GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672

FAX:

RE: Jackson B 33 OrderNo.: 2105147

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/5/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **2105147**Date Reported: **5/11/2021** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105147

**Project:** Jackson B 33

**Lab ID:** 2105147-001 **Collection Date:** 5/3/2021 1:40:00 PM

Client Sample ID: HA1-2 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: <b>VP</b>
Chloride	3900	150	mg/Kg	50	5/7/2021 9:17:08 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analy	st: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/5/2021 5:09:47 PM	59826
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/5/2021 5:09:47 PM	59826
Surr: DNOP	85.2	70-130	%Rec	1	5/5/2021 5:09:47 PM	59826
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/6/2021 8:44:34 PM	59822
Surr: BFB	94.2	70-130	%Rec	1	5/6/2021 8:44:34 PM	59822
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.023	mg/Kg	1	5/6/2021 8:44:34 PM	59822
Toluene	ND	0.047	mg/Kg	1	5/6/2021 8:44:34 PM	59822
Ethylbenzene	ND	0.047	mg/Kg	1	5/6/2021 8:44:34 PM	59822
Xylenes, Total	ND	0.093	mg/Kg	1	5/6/2021 8:44:34 PM	59822
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	5/6/2021 8:44:34 PM	59822

**Lab ID:** 2105147-002 **Collection Date:** 5/3/2021 1:45:00 PM

Client Sample ID: HA1-4 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	Satch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	4400	150	mg/Kg	50	5/7/2021 9:29:33 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/5/2021 5:19:36 PM	59826
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/5/2021 5:19:36 PM	59826
Surr: DNOP	90.4	70-130	%Rec	1	5/5/2021 5:19:36 PM	59826
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/6/2021 9:55:19 PM	59822
Surr: BFB	89.9	70-130	%Rec	1	5/6/2021 9:55:19 PM	59822
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/6/2021 9:55:19 PM	59822
Toluene	ND	0.049	mg/Kg	1	5/6/2021 9:55:19 PM	59822
Ethylbenzene	ND	0.049	mg/Kg	1	5/6/2021 9:55:19 PM	59822
Xylenes, Total	ND	0.097	mg/Kg	1	5/6/2021 9:55:19 PM	59822
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/6/2021 9:55:19 PM	59822

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Lab Order: 2105147

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/11/2021

CLIENT: GHD Lab Order: 2105147

**Project:** Jackson B 33

**Lab ID:** 2105147-003 **Collection Date:** 5/3/2021 1:50:00 PM

Client Sample ID: HA2-2 Matrix: SOIL

Chefit Sample ID: 11A2-2			Matrix	. 50	/IL	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: <b>VP</b>
Chloride	2000	61	mg/Kg	20	5/6/2021 2:50:12 PM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analy	st: SB
Diesel Range Organics (DRO)	16	9.8	mg/Kg	1	5/6/2021 9:02:43 AM	59826
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/6/2021 9:02:43 AM	59826
Surr: DNOP	117	70-130	%Rec	1	5/6/2021 9:02:43 AM	59826
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/6/2021 10:18:41 PM	1 59822
Surr: BFB	90.9	70-130	%Rec	1	5/6/2021 10:18:41 PM	1 59822
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.023	mg/Kg	1	5/6/2021 10:18:41 PM	1 59822
Toluene	ND	0.046	mg/Kg	1	5/6/2021 10:18:41 PM	1 59822
Ethylbenzene	ND	0.046	mg/Kg	1	5/6/2021 10:18:41 PM	1 59822
Xylenes, Total	ND	0.093	mg/Kg	1	5/6/2021 10:18:41 PM	1 59822
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/6/2021 10:18:41 PM	1 59822

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 11

Lab Order: **2105147**Date Reported: **5/11/2021** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105147

**Project:** Jackson B 33

**Lab ID:** 2105147-004 **Collection Date:** 5/3/2021 1:55:00 PM

Client Sample ID: HA2-4 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: <b>VP</b>
Chloride	630	59	mg/Kg	20	5/6/2021 3:52:13 PM	59851
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analy	st: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/5/2021 5:29:29 PM	59826
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/5/2021 5:29:29 PM	59826
Surr: DNOP	95.6	70-130	%Rec	1	5/5/2021 5:29:29 PM	59826
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/6/2021 10:42:04 PI	M 59822
Surr: BFB	92.0	70-130	%Rec	1	5/6/2021 10:42:04 PI	M 59822
<b>EPA METHOD 8021B: VOLATILES</b>					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	5/6/2021 10:42:04 Pi	M 59822
Toluene	ND	0.049	mg/Kg	1	5/6/2021 10:42:04 Pi	<i>M</i> 59822
Ethylbenzene	ND	0.049	mg/Kg	1	5/6/2021 10:42:04 PI	<i>I</i> 59822
Xylenes, Total	ND	0.098	mg/Kg	1	5/6/2021 10:42:04 PI	<i>I</i> 59822
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/6/2021 10:42:04 PI	Л 59822

**Lab ID:** 2105147-005 **Collection Date:** 5/3/2021 2:00:00 PM

Client Sample ID: HA3-2 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed Ba	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: <b>VP</b>
Chloride	230	60	mg/Kg	20	5/6/2021 4:04:37 PM	59851
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/5/2021 5:39:22 PM	59826
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/5/2021 5:39:22 PM	59826
Surr: DNOP	94.9	70-130	%Rec	1	5/5/2021 5:39:22 PM	59826
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/6/2021 11:05:30 PM	59822
Surr: BFB	93.6	70-130	%Rec	1	5/6/2021 11:05:30 PM	59822
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/6/2021 11:05:30 PM	59822
Toluene	ND	0.048	mg/Kg	1	5/6/2021 11:05:30 PM	59822
Ethylbenzene	ND	0.048	mg/Kg	1	5/6/2021 11:05:30 PM	59822
Xylenes, Total	ND	0.096	mg/Kg	1	5/6/2021 11:05:30 PM	59822
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	5/6/2021 11:05:30 PM	59822

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: 2105147

Hall Environmental Analysis Laboratory, Inc.

Lab Order:

Date Reported: 5/11/2021

2105147

CLIENT: GHD
Project: Jackson B 33

**Lab ID:** 2105147-006 **Collection Date:** 5/3/2021 2:05:00 PM

Client Sample ID: HA3-4 Matrix: SOIL

	Matrix: SOIL						
Result	RL	Qual Units	DF	Date Analyzed B	atch ID		
				Analys	t: <b>VP</b>		
250	60	mg/Kg	20	5/6/2021 4:17:02 PM	59851		
SANICS				Analys	t: <b>SB</b>		
ND	9.6	mg/Kg	1	5/5/2021 5:49:21 PM	59826		
ND	48	mg/Kg	1	5/5/2021 5:49:21 PM	59826		
102	70-130	%Rec	1	5/5/2021 5:49:21 PM	59826		
				Analys	t: <b>NSB</b>		
ND	4.8	mg/Kg	1	5/6/2021 11:29:01 PM	59822		
93.3	70-130	%Rec	1	5/6/2021 11:29:01 PM	59822		
				Analys	t: <b>NSB</b>		
ND	0.024	mg/Kg	1	5/6/2021 11:29:01 PM	59822		
ND	0.048	mg/Kg	1	5/6/2021 11:29:01 PM	59822		
ND	0.048	mg/Kg	1	5/6/2021 11:29:01 PM	59822		
ND	0.096	mg/Kg	1	5/6/2021 11:29:01 PM	59822		
104	70-130	%Rec	1	5/6/2021 11:29:01 PM	59822		
	250  SANICS  ND  ND  102  ND  93.3  ND  ND  ND  ND  ND  ND  ND  ND  ND	250 60  SANICS  ND 9.6  ND 48  102 70-130  ND 4.8  93.3 70-130  ND 0.024  ND 0.048  ND 0.048  ND 0.096	Result         RL         Qual         Units           250         60         mg/Kg           GANICS         mg/Kg           ND         9.6         mg/Kg           ND         48         mg/Kg           102         70-130         %Rec           ND         4.8         mg/Kg           93.3         70-130         %Rec           ND         0.024         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.096         mg/Kg	Result         RL         Qual         Units         DF           250         60         mg/Kg         20           GANICS         ND         9.6         mg/Kg         1           ND         48         mg/Kg         1           102         70-130         %Rec         1           ND         4.8         mg/Kg         1           93.3         70-130         %Rec         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.096         mg/Kg         1	Result         RL         Qual         Units         DF         Date Analyzed         B           Analys         250         60         mg/Kg         20         5/6/2021 4:17:02 PM         Analys           SANICS         Analys         Analys         Analys         Analys         Analys           ND         9.6         mg/Kg         1         5/5/2021 5:49:21 PM         Analys           ND         48         mg/Kg         1         5/5/2021 5:49:21 PM         Analys           ND         4.8         mg/Kg         1         5/6/2021 5:49:21 PM         Analys           ND         4.8         mg/Kg         1         5/6/2021 11:29:01 PM         Analys           ND         0.048         mg/Kg         1         5/6/2021 11:29:01 PM         Analys		

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 11

Lab Order: **2105147**Date Reported: **5/11/2021** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105147

**Project:** Jackson B 33

**Lab ID:** 2105147-007 **Collection Date:** 5/3/2021 2:10:00 PM

Client Sample ID: HA4-2 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1100	60	mg/Kg	20	5/6/2021 4:29:26 PM	59851
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/5/2021 8:09:05 PM	59826
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/5/2021 8:09:05 PM	59826
Surr: DNOP	90.7	70-130	%Rec	1	5/5/2021 8:09:05 PM	59826
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/6/2021 11:52:27 PM	59822
Surr: BFB	92.1	70-130	%Rec	1	5/6/2021 11:52:27 PM	59822
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/6/2021 11:52:27 PM	59822
Toluene	ND	0.049	mg/Kg	1	5/6/2021 11:52:27 PM	59822
Ethylbenzene	ND	0.049	mg/Kg	1	5/6/2021 11:52:27 PM	59822
Xylenes, Total	ND	0.098	mg/Kg	1	5/6/2021 11:52:27 PM	59822
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/6/2021 11:52:27 PM	59822

**Lab ID:** 2105147-008 **Collection Date:** 5/3/2021 2:15:00 PM

Client Sample ID: HA4-4 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed Ba	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: <b>VP</b>
Chloride	870	61	mg/Kg	20	5/6/2021 4:41:51 PM	59851
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/5/2021 5:59:25 PM	59826
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/5/2021 5:59:25 PM	59826
Surr: DNOP	86.9	70-130	%Rec	1	5/5/2021 5:59:25 PM	59826
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/7/2021 12:16:00 AM	59822
Surr: BFB	91.7	70-130	%Rec	1	5/7/2021 12:16:00 AM	59822
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/7/2021 12:16:00 AM	59822
Toluene	ND	0.048	mg/Kg	1	5/7/2021 12:16:00 AM	59822
Ethylbenzene	ND	0.048	mg/Kg	1	5/7/2021 12:16:00 AM	59822
Xylenes, Total	ND	0.097	mg/Kg	1	5/7/2021 12:16:00 AM	59822
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/7/2021 12:16:00 AM	59822

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: 2105147

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/11/2021

CLIENT: GHD Lab Order: 2105147

**Project:** Jackson B 33

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

: 2105147 11-May-21

WO#:

Client: GHD

**Project:** Jackson B 33

Sample ID: MB-59840 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **59840** RunNo: **77183** 

Prep Date: 5/6/2021 Analysis Date: 5/6/2021 SeqNo: 2737988 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59840 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59840 RunNo: 77183

Prep Date: 5/6/2021 Analysis Date: 5/6/2021 SeqNo: 2737989 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.5 90 110

Sample ID: MB-59851 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **59851** RunNo: **77183** 

Prep Date: 5/6/2021 Analysis Date: 5/6/2021 SeqNo: 2738022 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59851 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59851 RunNo: 77183

Prep Date: 5/6/2021 Analysis Date: 5/6/2021 SeqNo: 2738023 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.2 90 110

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105147** *11-May-21* 

Client: GHD

**Project:** Jackson B 33

Sample ID: MB-59826 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics PBS Client ID: Batch ID: 59826 RunNo: 77152 Prep Date: 5/5/2021 Analysis Date: 5/5/2021 SeqNo: 2736833 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.2 10.00 92.3 70 130

Sample ID: LCS-59826 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 59826 RunNo: 77152 Prep Date: 5/5/2021 Analysis Date: 5/5/2021 SeqNo: 2736835 Units: mg/Kg SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) 47 10 50.00 0 93.5 68.9 141 Surr: DNOP 4.6 5.000 91.8 70 130

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105147** 

11-May-21

Client: GHD

**Project:** Jackson B 33

Sample ID: MB-59822 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 59822 RunNo: 77197

Prep Date: 5/5/2021 Analysis Date: 5/6/2021 SeqNo: 2737863 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 920 1000 92.0 70 130

Sample ID: LCS-59822 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59822 RunNo: 77197

Prep Date: 5/5/2021 Analysis Date: 5/6/2021 SeqNo: 2737864 Units: mg/Kg

**RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 95.0 78.6 131

Surr: BFB 1000 1000 102 70 130

Sample ID: mb-59845 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 59845 RunNo: 77243

Prep Date: 5/6/2021 Analysis Date: 5/8/2021 SeqNo: 2739198 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 940 1000 93.6 70 130

Sample ID: Ics-59845 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59845 RunNo: 77243

Prep Date: 5/6/2021 Analysis Date: 5/7/2021 SegNo: 2739199 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 104 70 130

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105147** 

11-May-21

Client: GHD

Client ID:

LCSS

**Project:** Jackson B 33

Sample ID: MB-59822 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 59822 RunNo: 77197

Batch ID: 59822

Prep Date: 5/5/2021 Analysis Date: 5/6/2021 SeqNo: 2737911 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 102 70 130

Sample ID: LCS-59822 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Para Pata - Fifthers - Analysis Pata - Fifthers - October - Octobe

Prep Date: 5/5/2021 Analysis Date: 5/6/2021 SeqNo: 2737912 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.96 0.025 0 96.3 80 120 Benzene Toluene 0.98 0.050 1.000 0 97.6 80 120 0 97.6 80 0.98 0.050 1.000 120 Ethylbenzene 0 97.9 Xylenes, Total 2.9 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000 106 70 130

RunNo: 77197

Sample ID: 2105147-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **HA1-2** Batch ID: **59822** RunNo: **77197** 

Prep Date: 5/5/2021 Analysis Date: 5/6/2021 SeqNo: 2737915 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 105 76.3 1.0 0.025 0.9881 120 Benzene O Toluene 0.049 0.9881 0 110 78.5 120 1.1 0.9881 0 78.1 Ethylbenzene 1.1 0.049 112 124 Xylenes, Total 3.3 0.099 2.964 0 112 79.3 125 Surr: 4-Bromofluorobenzene 0.9881 1.0 103 70 130

Sample ID: 2105147-001amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **HA1-2** Batch ID: **59822** RunNo: **77197** 

Prep Date: 5/5/2021	Analysis D	Date: <b>5/</b>	6/2021	<b>021</b> SeqNo: <b>2737916</b> Units			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.024	0.9461	0	102	80	120	6.98	20		
Toluene	1.0	0.047	0.9461	0	108	80	120	6.39	20		
Ethylbenzene	1.0	0.047	0.9461	0	109	80	120	6.60	20		
Xylenes, Total	3.1	0.095	2.838	0	111	80	120	5.32	20		
Surr: 4-Bromofluorobenzene	0.98		0.9461		103	70	130	0	0		

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105147** *11-May-21* 

Client: GHD

**Project:** Jackson B 33

Sample ID: mb-59845 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 59845 RunNo: 77243

Prep Date: 5/6/2021 Analysis Date: 5/8/2021 SeqNo: 2739254 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 103 70 130

Sample ID: LCS-59845 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 59845 RunNo: 77243

Prep Date: 5/6/2021 Analysis Date: 5/7/2021 SeqNo: 2739255 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 103 70 13

#### 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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

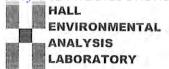
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Name:	GHD	Work Order Number	: 210	5147			RcptNo	10
Received By:	Juan Rojas	5/5/2021 7:25:00 AM			Hans	39		
Completed By:	Desiree Dominguez	5/5/2021 8:35:40 AM			1-0=			
Reviewed By:	JR 5-15-121					<		
Chain of Cus	<u>stody</u>							
1. Is Chain of C	ustody complete?		Yes	~	No		Not Present	
2. How was the	sample delivered?		Cou	rier				
Log In								
3. Was an attern	npt made to cool the sample	es?	Yes	<b>✓</b>	No		NA 🗌	
4. Were all samp	ples received at a temperati	ure of >0° C to 6.0°C	Yes	<b>V</b>	No		NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	<b>V</b>	No			
6. Sufficient sam	ple volume for indicated tes	st(s)?	Yes	~	No [			
7. Are samples (	except VOA and ONG) prop	perly preserved?	Yes	<b>V</b>	No [			
8. Was preserva	tive added to bottles?		Yes		No E	~	NA 🗌	
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes		No [		NA 🗸	77)
10. Were any san	mple containers received bro	oken?	Yes		No	<b>V</b>	# of preserved	
11. Does paperwo	ork match bottle labels?		Yes	V	No [		bottles checked for pH:	5/5/2
	ancies on chain of custody)		100				(≈2.01	>12 unless noted)
	correctly identified on Chain	3-2-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes	<b>V</b>	No [		Adjusted?	
	t analyses were requested?		Yes	<b>V</b>	No [			
	ng times able to be met? ustomer for authorization.)		Yes	<b>V</b>	No [	1	Checked by:	
Special Handl	ing (if applicable)							
15. Was client no	otified of all discrepancies w	ith this order?	Yes		No		NA 🗹	
Person	Notified:	Date:	-	_		-		
By Who	om:	Via: [	eM	ail 🔲	Phone	Fax	In Person	
Regardi	ing:							
Client Ir	nstructions:							
16. Additional rei	marks:							
17. Cooler Infor Cooler No		Seal Intact   Seal No   S	Seal D	ate	Signed B	у		

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d Time:	d 🗆 Rush	ie:	2		6116	ager: R	100		ADVes Co		D(including CF): 3	Preservative Type											Via:	Tradrier
Turn-Around Time:	_ ØStandard	Project Name:	Jackson	ш	766111	Project Man		Sampler	On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #	of the start		_					>			Received by: Received by:	1
Chain-of-Custody Record				Sult in Aut sig Nim 8820	00	Settle George Som Some Broject Manage	3-	□ Az Compliance	her			Sample Name	HA1-2	HA1-4	HA2-2	HA2-4	HA3-2	HA3-4	7-14H	HA4-4			Relinquished by: Relinquished by:	1900 aluming
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hain-	GHO		Mailing Address:	W. C.		1	ackage:	ation.		(Type)		Time	1340	1345	135D	1355	1400	1405	014	1415			Time:	1900
	Client:			(7 hZS /2	Phone #:			Accreditation.	□ NELAC	□ EDD (Type)		Date	5/5/21							>			\Z\	16/No



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

June 02, 2021

Tom Larson GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672

**FAX** 

RE: Jackson B 33 OrderNo.: 2105A87

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 16 sample(s) on 5/26/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **2105A87**Date Reported: **6/2/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-001 **Collection Date:** 5/24/2021 7:30:00 AM

Client Sample ID: TP1-S Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed H	Batch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	2300	150	mg/Kg	50	5/29/2021 2:08:24 PM	60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	210	8.9	mg/Kg	1	5/28/2021 12:25:56 PM	И 60287
Motor Oil Range Organics (MRO)	500	44	mg/Kg	1	5/28/2021 12:25:56 PM	A 60287
Surr: DNOP	92.7	70-130	%Rec	1	5/28/2021 12:25:56 PM	M 60287
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2021 8:37:08 PM	60281
Surr: BFB	99.4	70-130	%Rec	1	5/27/2021 8:37:08 PM	60281
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	5/27/2021 8:37:08 PM	60281
Toluene	ND	0.047	mg/Kg	1	5/27/2021 8:37:08 PM	60281
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2021 8:37:08 PM	60281
Xylenes, Total	ND	0.093	mg/Kg	1	5/27/2021 8:37:08 PM	60281
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/27/2021 8:37:08 PM	60281

**Lab ID:** 2105A87-002 **Collection Date:** 5/24/2021 7:35:00 AM

Client Sample ID: TP1-2 Matrix: SOIL

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: <b>VP</b>
Chloride	170	60	mg/Kg	20	5/29/2021 12:57:47	' AM 60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	alyst: SB
Diesel Range Organics (DRO)	51	9.6	mg/Kg	1	5/28/2021 11:46:19	AM 60287
Motor Oil Range Organics (MRO)	120	48	mg/Kg	1	5/28/2021 11:46:19	AM 60287
Surr: DNOP	95.7	70-130	%Rec	1	5/28/2021 11:46:19	AM 60287
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2021 9:00:38	PM 60281
Surr: BFB	98.1	70-130	%Rec	1	5/27/2021 9:00:38	PM 60281
EPA METHOD 8021B: VOLATILES					Ana	alyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/27/2021 9:00:38	PM 60281
Toluene	ND	0.050	mg/Kg	1	5/27/2021 9:00:38	PM 60281
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2021 9:00:38	PM 60281
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2021 9:00:38	PM 60281
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	5/27/2021 9:00:38	PM 60281

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: 2105A87

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2021

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-003 **Collection Date:** 5/24/2021 7:40:00 AM

Client Sample ID: TP2-S Matrix: SOIL

Chefft Sample ID: 112-5			Matrix	. 50	/IL	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>VP</b>
Chloride	ND	60	mg/Kg	20	5/29/2021 1:10:12	AM 60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	lyst: SB
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	5/27/2021 3:07:23 F	PM 60287
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	5/27/2021 3:07:23 F	PM 60287
Surr: DNOP	99.8	70-130	%Rec	1	5/27/2021 3:07:23 F	PM 60287
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2021 9:24:04 F	PM 60281
Surr: BFB	100	70-130	%Rec	1	5/27/2021 9:24:04 F	PM 60281
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/27/2021 9:24:04 F	PM 60281
Toluene	ND	0.047	mg/Kg	1	5/27/2021 9:24:04 F	PM 60281
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2021 9:24:04 F	PM 60281
Xylenes, Total	ND	0.093	mg/Kg	1	5/27/2021 9:24:04 F	PM 60281
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/27/2021 9:24:04 F	PM 60281

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2105A87**Date Reported: **6/2/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-004 **Collection Date:** 5/24/2021 7:50:00 AM

Client Sample ID: TP3-4 Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1600	60	mg/Kg	20	5/29/2021 1:22:36 AM	60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	93	9.5	mg/Kg	1	5/28/2021 1:05:59 PM	60287
Motor Oil Range Organics (MRO)	130	48	mg/Kg	1	5/28/2021 1:05:59 PM	60287
Surr: DNOP	92.3	70-130	%Rec	1	5/28/2021 1:05:59 PM	60287
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2021 9:47:35 PM	60281
Surr: BFB	101	70-130	%Rec	1	5/27/2021 9:47:35 PM	60281
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/27/2021 9:47:35 PM	60281
Toluene	ND	0.050	mg/Kg	1	5/27/2021 9:47:35 PM	60281
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2021 9:47:35 PM	60281
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2021 9:47:35 PM	60281
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/27/2021 9:47:35 PM	60281

**Lab ID:** 2105A87-005 **Collection Date:** 5/24/2021 8:15:00 AM

Client Sample ID: TP3-12 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch II
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>VP</b>
Chloride	1600	60	mg/Kg	20	5/29/2021 1:35:00	AM 60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	lyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/27/2021 3:17:18	PM 60287
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/27/2021 3:17:18	PM 60287
Surr: DNOP	107	70-130	%Rec	1	5/27/2021 3:17:18	PM 60287
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2021 10:11:17	PM 6028
Surr: BFB	99.0	70-130	%Rec	1	5/27/2021 10:11:17	PM 6028
<b>EPA METHOD 8021B: VOLATILES</b>					Ana	lyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/27/2021 10:11:17	PM 6028
Toluene	ND	0.050	mg/Kg	1	5/27/2021 10:11:17	PM 6028
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2021 10:11:17	PM 6028
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2021 10:11:17	PM 6028
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/27/2021 10:11:17	PM 6028

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: 2105A87

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2021

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-006 **Collection Date:** 5/24/2021 8:20:00 AM

Client Sample ID: TP3-14 Matrix: SOIL

Chefft Sample ID: 11 3-14			Matrix	: SC	/IL	
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: <b>VP</b>
Chloride	600	60	mg/Kg	20	5/29/2021 2:12:13	AM 60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	alyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.3	mg/Kg	1	5/27/2021 3:27:09	PM 60287
Motor Oil Range Organics (MRO)	ND	41	mg/Kg	1	5/27/2021 3:27:09	PM 60287
Surr: DNOP	118	70-130	%Rec	1	5/27/2021 3:27:09	PM 60287
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2021 10:35:05	5 PM 60281
Surr: BFB	98.7	70-130	%Rec	1	5/27/2021 10:35:05	5 PM 60281
EPA METHOD 8021B: VOLATILES					Ana	alyst: <b>NSB</b>
Benzene	ND	0.025	mg/Kg	1	5/27/2021 10:35:05	5 PM 60281
Toluene	ND	0.050	mg/Kg	1	5/27/2021 10:35:05	5 PM 60281
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2021 10:35:05	5 PM 60281
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2021 10:35:05	5 PM 60281
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	5/27/2021 10:35:05	5 PM 60281

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2105A87**Date Reported: **6/2/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-007 **Collection Date:** 5/24/2021 8:40:00 AM

Client Sample ID: TP4-2 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Bate	ch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>\</b>	VP
Chloride	890	60	mg/Kg	20	5/29/2021 2:24:37 A	AM (	60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Ana	lyst: \$	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/27/2021 3:36:59 F	PM (	60287
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/27/2021 3:36:59 F	PM (	60287
Surr: DNOP	116	70-130	%Rec	1	5/27/2021 3:36:59 F	PM (	60287
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: I	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2021 11:46:16	PM 6	60281
Surr: BFB	100	70-130	%Rec	1	5/27/2021 11:46:16	PM (	60281
EPA METHOD 8021B: VOLATILES					Ana	lyst: I	NSB
Benzene	ND	0.024	mg/Kg	1	5/27/2021 11:46:16	PM 6	60281
Toluene	ND	0.049	mg/Kg	1	5/27/2021 11:46:16	PM 6	60281
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2021 11:46:16	PM 6	60281
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2021 11:46:16	PM 6	60281
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/27/2021 11:46:16	PM (	60281

**Lab ID:** 2105A87-008 **Collection Date:** 5/24/2021 8:50:00 AM

Client Sample ID: TP5-2 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed Ba	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1100	60	mg/Kg	20	5/29/2021 2:37:02 AM	60336
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/27/2021 3:46:53 PM	60287
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/27/2021 3:46:53 PM	60287
Surr: DNOP	106	70-130	%Rec	1	5/27/2021 3:46:53 PM	60287
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2021 12:09:53 AM	60281
Surr: BFB	99.6	70-130	%Rec	1	5/28/2021 12:09:53 AM	60281
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2021 12:09:53 AM	60281
Toluene	ND	0.047	mg/Kg	1	5/28/2021 12:09:53 AM	60281
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2021 12:09:53 AM	60281
Xylenes, Total	ND	0.094	mg/Kg	1	5/28/2021 12:09:53 AM	60281
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/28/2021 12:09:53 AM	60281

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2105A87**Date Reported: **6/2/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-009 **Collection Date:** 5/24/2021 8:55:00 AM

Client Sample ID: TP5-4 Matrix: SOIL

Client Sample ID: TP5-4			Matrix	: SC	OIL	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>VP</b>
Chloride	1200	60	mg/Kg	20	5/29/2021 2:49:26	AM 60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	lyst: SB
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	5/27/2021 3:56:45 I	PM 60287
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	5/27/2021 3:56:45 F	PM 60287
Surr: DNOP	115	70-130	%Rec	1	5/27/2021 3:56:45 F	PM 60287
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/28/2021 12:33:31	AM 60281
Surr: BFB	99.0	70-130	%Rec	1	5/28/2021 12:33:31	AM 60281
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/28/2021 12:33:31	AM 60281
Toluene	ND	0.050	mg/Kg	1	5/28/2021 12:33:31	AM 60281
Ethylbenzene	ND	0.050	mg/Kg	1	5/28/2021 12:33:31	AM 60281
Xylenes, Total	ND	0.10	mg/Kg	1	5/28/2021 12:33:31	AM 60281
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/28/2021 12:33:31	AM 60281

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2105A87**Date Reported: **6/2/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-010 **Collection Date:** 5/24/2021 9:35:00 AM

Client Sample ID: TP5-14 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Bat	ch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: '	VP
Chloride	2800	150	mg/Kg	50	5/29/2021 2:20:49 F	PM	60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Anal	lyst:	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/27/2021 4:06:33 F	PM	60287
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2021 4:06:33 F	PM	60287
Surr: DNOP	112	70-130	%Rec	1	5/27/2021 4:06:33 F	PM	60287
EPA METHOD 8015D: GASOLINE RANGE					Anal	lyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2021 12:57:11	AM	60281
Surr: BFB	99.9	70-130	%Rec	1	5/28/2021 12:57:11	AM	60281
EPA METHOD 8021B: VOLATILES					Anal	lyst:	NSB
Benzene	ND	0.025	mg/Kg	1	5/28/2021 12:57:11	AM	60281
Toluene	ND	0.049	mg/Kg	1	5/28/2021 12:57:11	AM	60281
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2021 12:57:11	AM	60281
Xylenes, Total	ND	0.098	mg/Kg	1	5/28/2021 12:57:11	AM	60281
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/28/2021 12:57:11	AM	60281

**Lab ID:** 2105A87-011 **Collection Date:** 5/24/2021 9:40:00 AM

Client Sample ID: TP6-S Matrix: SOIL

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	rst: <b>VP</b>
Chloride	490	60	mg/Kg	20	5/29/2021 3:14:15 AM	M 60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analy	st: SB
Diesel Range Organics (DRO)	13	9.2	mg/Kg	1	5/28/2021 12:52:41 F	PM 60287
Motor Oil Range Organics (MRO)	140	46	mg/Kg	1	5/28/2021 12:52:41 F	PM 60287
Surr: DNOP	84.0	70-130	%Rec	1	5/28/2021 12:52:41 F	PM 60287
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2021 1:21:00 AM	И 60281
Surr: BFB	98.9	70-130	%Rec	1	5/28/2021 1:21:00 AM	M 60281
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2021 1:21:00 AM	И 60281
Toluene	ND	0.047	mg/Kg	1	5/28/2021 1:21:00 AM	M 60281
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2021 1:21:00 AM	A 60281
Xylenes, Total	ND	0.094	mg/Kg	1	5/28/2021 1:21:00 AM	M 60281
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/28/2021 1:21:00 AM	И 60281

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: 2105A87

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2021

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-012 **Collection Date:** 5/24/2021 9:45:00 AM

Client Sample ID: TP6-2 Matrix: SOIL

Chefit Sample ID. 110-2			Matrix	. 50	/IL	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: <b>VP</b>
Chloride	730	60	mg/Kg	20	5/29/2021 3:26:40	AM 60336
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	alyst: SB
Diesel Range Organics (DRO)	30	8.7	mg/Kg	1	5/28/2021 11:59:27	7 AM 60287
Motor Oil Range Organics (MRO)	220	43	mg/Kg	1	5/28/2021 11:59:27	7 AM 60287
Surr: DNOP	82.8	70-130	%Rec	1	5/28/2021 11:59:27	7 AM 60287
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2021 1:44:50	AM 60281
Surr: BFB	98.8	70-130	%Rec	1	5/28/2021 1:44:50	AM 60281
EPA METHOD 8021B: VOLATILES					Ana	alyst: <b>NSB</b>
Benzene	ND	0.024	mg/Kg	1	5/28/2021 1:44:50	AM 60281
Toluene	ND	0.049	mg/Kg	1	5/28/2021 1:44:50	AM 60281
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2021 1:44:50	AM 60281
Xylenes, Total	ND	0.098	mg/Kg	1	5/28/2021 1:44:50	AM 60281
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	5/28/2021 1:44:50	AM 60281

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2105A87**Date Reported: **6/2/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-013 **Collection Date:** 5/24/2021 9:50:00 AM

Client Sample ID: TP7-4 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	ı ID
EPA METHOD 300.0: ANIONS					Anal	yst: <b>VP</b>	>
Chloride	930	60	mg/Kg	20	5/29/2021 3:39:04 A	M 60	336
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Anal	yst: SE	3
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/27/2021 4:16:21 F	M 60	287
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/27/2021 4:16:21 F	M 60	287
Surr: DNOP	124	70-130	%Rec	1	5/27/2021 4:16:21 P	M 60	287
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: NS	SB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2021 2:08:33 A	.M 60	281
Surr: BFB	99.0	70-130	%Rec	1	5/28/2021 2:08:33 A	.M 60	281
EPA METHOD 8021B: VOLATILES					Anal	yst: <b>NS</b>	SB
Benzene	ND	0.025	mg/Kg	1	5/28/2021 2:08:33 A	.M 60	281
Toluene	ND	0.049	mg/Kg	1	5/28/2021 2:08:33 A	M 60	281
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2021 2:08:33 A	.M 60	281
Xylenes, Total	ND	0.098	mg/Kg	1	5/28/2021 2:08:33 A	.M 60	281
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/28/2021 2:08:33 A	.M 60	281

**Lab ID:** 2105A87-014 **Collection Date:** 5/24/2021 10:00:00 AM

Client Sample ID: TP8-S Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed 1	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: <b>VP</b>
Chloride	110	60	mg/Kg	20	6/1/2021 2:35:01 PM	60357
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	st: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/27/2021 4:26:11 PM	60287
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/27/2021 4:26:11 PM	60287
Surr: DNOP	106	70-130	%Rec	1	5/27/2021 4:26:11 PM	60287
EPA METHOD 8015D: GASOLINE RANGE					Analys	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/28/2021 2:32:18 AM	60281
Surr: BFB	98.0	70-130	%Rec	1	5/28/2021 2:32:18 AM	60281
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.025	mg/Kg	1	5/28/2021 2:32:18 AM	60281
Toluene	ND	0.050	mg/Kg	1	5/28/2021 2:32:18 AM	60281
Ethylbenzene	ND	0.050	mg/Kg	1	5/28/2021 2:32:18 AM	60281
Xylenes, Total	ND	0.10	mg/Kg	1	5/28/2021 2:32:18 AM	60281
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	5/28/2021 2:32:18 AM	60281

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2105A87** 

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2021

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-015 **Collection Date:** 5/24/2021 10:05:00 AM

Client Sample ID: TP8-2 Matrix: SOIL

Client Sample ID: 1P8-2			Matrix	: 50	IL	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>VP</b>
Chloride	290	60	mg/Kg	20	6/1/2021 2:47:26 PI	M 60357
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	lyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/27/2021 4:35:58 F	PM 60287
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2021 4:35:58 F	PM 60287
Surr: DNOP	118	70-130	%Rec	1	5/27/2021 4:35:58 F	PM 60287
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/28/2021 2:56:01 /	AM 60281
Surr: BFB	99.9	70-130	%Rec	1	5/28/2021 2:56:01 /	AM 60281
<b>EPA METHOD 8021B: VOLATILES</b>					Ana	lyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/28/2021 2:56:01 /	AM 60281
Toluene	ND	0.050	mg/Kg	1	5/28/2021 2:56:01 /	AM 60281
Ethylbenzene	ND	0.050	mg/Kg	1	5/28/2021 2:56:01 /	AM 60281
Xylenes, Total	ND	0.10	mg/Kg	1	5/28/2021 2:56:01 /	AM 60281
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/28/2021 2:56:01 /	AM 60281

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2105A87**Date Reported: **6/2/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-016 **Collection Date:** 5/25/2021 7:50:00 AM

Client Sample ID: TP5-20 Matrix: SOIL

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	/st: <b>VP</b>
Chloride	2100	60	mg/Kg	20	6/1/2021 3:24:39 PM	60357
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analy	/st: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/27/2021 4:45:42 PI	M 60287
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/27/2021 4:45:42 PI	M 60287
Surr: DNOP	114	70-130	%Rec	1	5/27/2021 4:45:42 PI	M 60287
EPA METHOD 8015D: GASOLINE RANGE					Analy	/st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2021 3:19:50 Al	M 60281
Surr: BFB	100	70-130	%Rec	1	5/28/2021 3:19:50 Al	M 60281
EPA METHOD 8021B: VOLATILES					Analy	/st: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2021 3:19:50 Al	M 60281
Toluene	ND	0.047	mg/Kg	1	5/28/2021 3:19:50 Al	M 60281
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2021 3:19:50 Al	M 60281
Xylenes, Total	ND	0.095	mg/Kg	1	5/28/2021 3:19:50 Al	M 60281
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/28/2021 3:19:50 Al	M 60281

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105A87** *02-Jun-21* 

Client: GHD

**Project:** Jackson B 33

Sample ID: MB-60336 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **60336** RunNo: **77726** 

Prep Date: 5/28/2021 Analysis Date: 5/28/2021 SeqNo: 2760740 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-60336 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60336 RunNo: 77726

Prep Date: 5/28/2021 Analysis Date: 5/28/2021 SeqNo: 2760741 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.6 90 110

Sample ID: MB-60357 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60357 RunNo: 78785

Prep Date: 6/1/2021 Analysis Date: 6/1/2021 SeqNo: 2762658 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-60357 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60357 RunNo: 78785

Prep Date: 6/1/2021 Analysis Date: 6/1/2021 SeqNo: 2762659 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.5 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

6.0

2105A87 02-Jun-21

WO#:

Client: GHD

Surr: DNOP

**Project:** Jackson B 33

Sample ID: MB-60287 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 60287 RunNo: 77689 Prep Date: 5/26/2021 Analysis Date: 5/27/2021 SeqNo: 2758381 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 70 11 111 130

Sample ID: LCS-60287 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 60287 RunNo: 77689 Prep Date: 5/26/2021 Analysis Date: 5/27/2021 SeqNo: 2758383 Units: mg/Kg SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 59 10 50.00 118 68.9 141

121

70

130

5.000

#### 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

2105A87 02-Jun-21

WO#:

Client: GHD

Surr: BFB

**Project:** Jackson B 33

Sample ID: mb-60281 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 60281 RunNo: 77699

Prep Date: 5/26/2021 Analysis Date: 5/27/2021 SeqNo: 2758755 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 70 130

Sample ID: Ics-60281 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60281 RunNo: 77699

1100

Prep Date: 5/26/2021 Analysis Date: 5/27/2021 SeqNo: 2758756 Units: mg/Kg

1000

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 25 5.0 25.00 0 101 78.6 131

70

130

112

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

2105A87 02-Jun-21

WO#:

Client: GHD

**Project:** Jackson B 33

Sample ID: mb-60281 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 60281 RunNo: 77699

Prep Date: 5/26/2021 Analysis Date: 5/27/2021 SeqNo: 2758801 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 103 70 130

Sample ID: LCS-60281	Samp1	Type: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: <b>60</b> 2	281	F	RunNo: 7	7699				
Prep Date: 5/26/2021	Analysis [	Date: 5/	27/2021	8	SeqNo: 2758802 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			

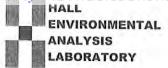
# Xylenes, Total 3.0 0.10 3.000 0 102 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 105 70 130

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	GHD	Work Order Nur	nber: 210	5A87		Ro	cptNo: 1
Received By:	Juan Rojas	5/26/2021 7:30:00	AM		flans	D	
Completed By:	Cheyenne Cason	5/26/2021 7:53:05	AM		Clear		
Reviewed By:	SPA5. 26.2				Charles		
Chain of Cus	<u>tody</u>						
1. Is Chain of Co	ustody complete?		Yes	~	No [	Not Present	
2. How was the	sample delivered?		Cou	rier			
Log In							
	npt made to cool the sample	s?	Yes	<b>V</b>	No [	□ NA	
4. Were all samp	oles received at a temperatu	re of >0° C to 6.0°C	Yes	V	No [	□ NA	
5. Sample(s) in p	proper container(s)?		Yes	•	No [		
6. Sufficient sam	ple volume for indicated tes	t(s)?	Yes	~	No [		
	except VOA and ONG) prop		Yes	V	No [		
	tive added to bottles?		Yes		No 🔽	NA NA	
9. Received at le	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes		No [	] NA I	V
10. Were any sam	nple containers received bro	ken?	Yes		No S	2	IO
						# of preserved bottles checked	5.26.21
	ork match bottle labels? Incies on chain of custody)		Yes	<b>V</b>	No L	for pH:	(<2 or >12 unless noted)
	correctly identified on Chain	of Custody?	Yes	<b>V</b>	No [	Adjusted?	
	analyses were requested?	or Dublody.	Yes	<b>V</b>	No [		
14. Were all holdir	ng times able to be met?		Yes	<b>V</b>	No [	Checked to	by:
	ing (if applicable)						
	tified of all discrepancies wit	h this order?	Yes		No [	] NA	<b>~</b>
Person	Notified:	Date	e l			_	
By Who	m:	Via:	eM	ail 🗍	Phone F	ax In Person	
Regardi	ng:						in .
Client In	structions:						-
16. Additional rer	marks:						
17. Cooler Inform Cooler No	TENTO AND ADDRESS OF A	Seal Intact Seal No	Seal D	ate	Signed By		

O	hain	of-C	Chain-of-Custody Record	Turn-Around Time:	Time:						2000		2000		eive
Client:	6	9		25Standard	I 🗆 Rush	5 day			MALL ENV. ANAI YSTS	\   	MAT	2 4	ENVIKONMENT	9 4	# by \
				Project Name:	e:	1			,,,,,,,,,		John Pollopsing Commontation	o to			
Mailing	Mailing Address:	12		Jer!	N	2.2#	49	4901 Hawkins NF	kins NF	. 7		N dir	Albuquerque NM 87109	0	); 9/1
324	324 W. Mail	StS	with 108 Antes NIMBBOID	Proj		)	ř	Tel. 505-	505-345-3975		Fax 50	505-345-4107	4107	,	/202
Phone #:	#: (		377-4218		1727 840S	1				Anal		Request			1 10
email o	email or Fax#:	Sel.	Haskell @ CND. com	Project Mar	iger:			_	(	†OS		(Jne	OC.		18:1
□ Standard	ige:	Tem.	Cover @CHO Cover Cover Cover Cover Cover 4 (Full Validation)	1	Becks 1	Sow Laskell			SWISC	,₄ОЧ		edA\ti	E (		9 AM
Accreditation:	itation: AC	☐ Az Co	☐ Az Compliance	Sampler: Sampler:	Zed. Col	Quity ON [		Z808/		NO <sup>5</sup>	(7		oft)		
☐ EDD (Type)	(Type)			# of Coolers:			_	səpi	01	_			V		
				Cooler Temp(including CF):	(including CF):	12-6-1-5-4°C)		oitea	68 yd			712.5.1	361-		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	7.105.48.7	BTEX 18:H97	8081 F	I sHA9	CI, F,	() 0228	8) 07S8 Total C	10/7		
052721	0220	20	(F)-S	Just		100	-			-	_		8		
-	0785	-	7-191-2	4		200	-						-		
	040		TP2-5			<i>∞</i> 7 <i>∞</i> 3	<u>}-</u>						F		
	OSLO		TP3-4			480							-		
	20015		TP3-12			0005									
	0830		TP3-14			900									
	0840		TP4-2			5007									
	0880		TPS-2			CICK									
	8855		TP5-4			000									
>	097		TP5-14			010									
Salar Salar	3	2	Constant of the Constant of th												
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HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com	505-345-4107	Analysis Request	φος, sοφ	Lesen)	AO\	(AO	V) 0828 62) 0728	3				->			others list above	See 62 6
HALL	www.ha 4901 Hawkins NF		<b>Q</b>	PCB's	) / DR()   S8082     (1.4	0 oi qes\ 3BC	15D(c ethoc 831		9				-			Remarks: Please eyes	
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t: CAD		1 54 108 AJSIE NIN88210	3057-726	Seck, Heskill @ GHD, coin Clack _ Settle & connecures, coin Town Lerson & CHD, coin	☐ Az Compliance			Matrix Sample Name	TP6-2	TP7-4	TP8-8	TP8-2	TP5-20			Relinquished by:  Lec (DW, no   H	Relinquished by:
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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

July 09, 2021

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

**FAX** 

RE: Jackson B 33 OrderNo.: 2106E76

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/29/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **2106E76**Date Reported: **7/9/2021** 

2106E76

## Hall Environmental Analysis Laboratory, Inc.

GHD Midland

Lab Order:

**Project:** Jackson B 33

**CLIENT:** 

**Lab ID:** 2106E76-001 **Collection Date:** 6/28/2021 8:30:00 AM

Client Sample ID: TP9-2 Matrix: SOIL

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	: VP
Chloride	760	60	mg/Kg	20	7/3/2021 12:13:56 AM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	:: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/3/2021 8:36:14 PM	61039
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/3/2021 8:36:14 PM	61039
Surr: DNOP	76.4	70-130	%Rec	1	7/3/2021 8:36:14 PM	61039
EPA METHOD 8015D: GASOLINE RANGE					Analys	:: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/3/2021 5:13:20 AM	61022
Surr: BFB	101	70-130	%Rec	1	7/3/2021 5:13:20 AM	61022
EPA METHOD 8021B: VOLATILES					Analys	:: NSB
Benzene	ND	0.024	mg/Kg	1	7/3/2021 5:13:20 AM	61022
Toluene	ND	0.048	mg/Kg	1	7/3/2021 5:13:20 AM	61022
Ethylbenzene	ND	0.048	mg/Kg	1	7/3/2021 5:13:20 AM	61022
Xylenes, Total	ND	0.096	mg/Kg	1	7/3/2021 5:13:20 AM	61022
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	7/3/2021 5:13:20 AM	61022

**Lab ID:** 2106E76-002 **Collection Date:** 6/28/2021 8:35:00 AM

Client Sample ID: TP9-4 Matrix: SOIL

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	630	60	mg/Kg	20	7/3/2021 1:16:01 AM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/3/2021 9:00:11 PM	61039
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/3/2021 9:00:11 PM	61039
Surr: DNOP	73.6	70-130	%Rec	1	7/3/2021 9:00:11 PM	61039
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/3/2021 5:36:53 AM	61022
Surr: BFB	100	70-130	%Rec	1	7/3/2021 5:36:53 AM	61022
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	7/3/2021 5:36:53 AM	61022
Toluene	ND	0.046	mg/Kg	1	7/3/2021 5:36:53 AM	61022
Ethylbenzene	ND	0.046	mg/Kg	1	7/3/2021 5:36:53 AM	61022
Xylenes, Total	ND	0.091	mg/Kg	1	7/3/2021 5:36:53 AM	61022
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	7/3/2021 5:36:53 AM	61022

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76** 

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/9/2021

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-003 **Collection Date:** 6/28/2021 8:40:00 AM

Client Sample ID: TP10-S Matrix: SOIL

Client Sample ID: 1P10-S		Matrix: SUIL							
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID			
EPA METHOD 300.0: ANIONS					Anal	lyst: <b>VP</b>			
Chloride	ND	60	mg/Kg	20	7/3/2021 1:28:26 AM	M 61106			
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Anal	lyst: <b>SB</b>			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/3/2021 9:48:04 PM	M 61039			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/3/2021 9:48:04 PM	M 61039			
Surr: DNOP	85.6	70-130	%Rec	1	7/3/2021 9:48:04 PM	M 61039			
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: <b>NSB</b>			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/3/2021 6:00:25 AM	M 61022			
Surr: BFB	101	70-130	%Rec	1	7/3/2021 6:00:25 AM	M 61022			
EPA METHOD 8021B: VOLATILES					Anal	yst: <b>NSB</b>			
Benzene	ND	0.024	mg/Kg	1	7/3/2021 6:00:25 AM	M 61022			
Toluene	ND	0.048	mg/Kg	1	7/3/2021 6:00:25 AM	M 61022			
Ethylbenzene	ND	0.048	mg/Kg	1	7/3/2021 6:00:25 AM	M 61022			
Xylenes, Total	ND	0.096	mg/Kg	1	7/3/2021 6:00:25 AM	M 61022			
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	7/3/2021 6:00:25 AM	M 61022			

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-004 **Collection Date:** 6/28/2021 8:45:00 AM

Client Sample ID: TP10-2 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Bat	tch ID
EPA METHOD 300.0: ANIONS						Ana	alyst:	VP
Chloride	ND	60		mg/Kg	20	7/3/2021 1:40:50 A	M	61106
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Ana	alyst:	SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	7/3/2021 10:11:59	PM	61039
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/3/2021 10:11:59	PM	61039
Surr: DNOP	162	70-130	S	%Rec	1	7/3/2021 10:11:59	PM	61039
EPA METHOD 8015D: GASOLINE RANGE						Ana	alyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/3/2021 6:24:04 A	M	61022
Surr: BFB	99.7	70-130		%Rec	1	7/3/2021 6:24:04 A	M	61022
EPA METHOD 8021B: VOLATILES						Ana	alyst:	NSB
Benzene	ND	0.023		mg/Kg	1	7/3/2021 6:24:04 A	M	61022
Toluene	ND	0.047		mg/Kg	1	7/3/2021 6:24:04 A	M	61022
Ethylbenzene	ND	0.047		mg/Kg	1	7/3/2021 6:24:04 A	M	61022
Xylenes, Total	ND	0.094		mg/Kg	1	7/3/2021 6:24:04 A	M	61022
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/3/2021 6:24:04 A	M	61022

**Lab ID:** 2106E76-005 **Collection Date:** 6/28/2021 8:55:00 AM

Client Sample ID: TP11-2 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analy	st: <b>VP</b>
Chloride	4200	150		mg/Kg	50	7/6/2021 7:56:34 AM	61106
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analy	st: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/3/2021 10:35:53 PM	A 61039
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/3/2021 10:35:53 PM	<i>l</i> 61039
Surr: DNOP	214	70-130	S	%Rec	1	7/3/2021 10:35:53 PM	A 61039
EPA METHOD 8015D: GASOLINE RANGE						Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Surr: BFB	101	70-130		%Rec	1	7/3/2021 6:47:40 AM	61022
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	ND	0.023		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Toluene	ND	0.046		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Ethylbenzene	ND	0.046		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Xylenes, Total	ND	0.092		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/3/2021 6:47:40 AM	61022

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-006 **Collection Date:** 6/28/2021 9:15:00 AM

Client Sample ID: TP11-8 Matrix: SOIL

Analyses Result RL Qual U	Units	DF	Date Analyzed Ba	tch ID
EPA METHOD 300.0: ANIONS			Analyst	VP
Chloride 4300 150 r	mg/Kg	50	7/6/2021 8:08:59 AM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS			Analyst	SB
Diesel Range Organics (DRO) ND 8.2 r	mg/Kg	1	7/3/2021 10:59:50 PM	61039
Motor Oil Range Organics (MRO) ND 41 r	mg/Kg	1	7/3/2021 10:59:50 PM	61039
Surr: DNOP 99.8 70-130	%Rec	1	7/3/2021 10:59:50 PM	61039
EPA METHOD 8015D: GASOLINE RANGE			Analyst	NSB
Gasoline Range Organics (GRO) ND 4.8 r	mg/Kg	1	7/3/2021 7:11:17 AM	61022
Surr: BFB 100 70-130	%Rec	1	7/3/2021 7:11:17 AM	61022
EPA METHOD 8021B: VOLATILES			Analyst	NSB
Benzene ND 0.024 r	mg/Kg	1	7/3/2021 7:11:17 AM	61022
Toluene ND 0.048 r	mg/Kg	1	7/3/2021 7:11:17 AM	61022
Ethylbenzene ND 0.048 r	mg/Kg	1	7/3/2021 7:11:17 AM	61022
Xylenes, Total ND 0.096 r	mg/Kg	1	7/3/2021 7:11:17 AM	61022
Surr: 4-Bromofluorobenzene 102 70-130	%Rec	1	7/3/2021 7:11:17 AM	61022

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-007 **Collection Date:** 6/28/2021 9:20:00 AM

Client Sample ID: TP11-10 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed I	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: <b>VP</b>
Chloride	3600	150	mg/Kg	50	7/6/2021 8:21:24 AM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	st: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/3/2021 11:23:43 PM	61039
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/3/2021 11:23:43 PM	61039
Surr: DNOP	88.0	70-130	%Rec	1	7/3/2021 11:23:43 PM	61039
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/3/2021 7:34:54 AM	61022
Surr: BFB	99.7	70-130	%Rec	1	7/3/2021 7:34:54 AM	61022
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	7/3/2021 7:34:54 AM	61022
Toluene	ND	0.049	mg/Kg	1	7/3/2021 7:34:54 AM	61022
Ethylbenzene	ND	0.049	mg/Kg	1	7/3/2021 7:34:54 AM	61022
Xylenes, Total	ND	0.099	mg/Kg	1	7/3/2021 7:34:54 AM	61022
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	7/3/2021 7:34:54 AM	61022

**Lab ID:** 2106E76-008 **Collection Date:** 6/28/2021 9:30:00 AM

Client Sample ID: TP11-12 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	370	61	mg/Kg	20	7/3/2021 2:30:29 AM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/3/2021 11:47:38 PM	61039
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/3/2021 11:47:38 PM	61039
Surr: DNOP	91.4	70-130	%Rec	1	7/3/2021 11:47:38 PM	61039
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/3/2021 7:58:32 AM	61022
Surr: BFB	101	70-130	%Rec	1	7/3/2021 7:58:32 AM	61022
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/3/2021 7:58:32 AM	61022
Toluene	ND	0.048	mg/Kg	1	7/3/2021 7:58:32 AM	61022
Ethylbenzene	ND	0.048	mg/Kg	1	7/3/2021 7:58:32 AM	61022
Xylenes, Total	ND	0.095	mg/Kg	1	7/3/2021 7:58:32 AM	61022
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	7/3/2021 7:58:32 AM	61022

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

## Hall Environmental Analysis Laboratory, Inc.

-

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-009 **Collection Date:** 6/28/2021 9:35:00 AM

Client Sample ID: TP12-S Matrix: SOIL

Chefit Sample 1D. 11 12 5	Wittin. Soil							
Analyses	Result	RL C	Qual Units	DF	Date Analyzed	Batch ID		
EPA METHOD 300.0: ANIONS					Anal	yst: <b>VP</b>		
Chloride	ND	60	mg/Kg	20	7/3/2021 2:42:54 AM	l 61106		
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Anal	yst: <b>SB</b>		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/4/2021 12:11:29 A	M 61039		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/4/2021 12:11:29 A	M 61039		
Surr: DNOP	85.0	70-130	%Rec	1	7/4/2021 12:11:29 A	M 61039		
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/3/2021 8:45:45 AM	61022		
Surr: BFB	99.7	70-130	%Rec	1	7/3/2021 8:45:45 AM	l 61022		
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB		
Benzene	ND	0.024	mg/Kg	1	7/3/2021 8:45:45 AM	61022		
Toluene	ND	0.048	mg/Kg	1	7/3/2021 8:45:45 AM	61022		
Ethylbenzene	ND	0.048	mg/Kg	1	7/3/2021 8:45:45 AM	l 61022		
Xylenes, Total	ND	0.095	mg/Kg	1	7/3/2021 8:45:45 AM	l 61022		
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	7/3/2021 8:45:45 AM	l 61022		

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-010 **Collection Date:** 6/28/2021 9:40:00 AM

Client Sample ID: TP12-2 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Bat	tch ID
EPA METHOD 300.0: ANIONS					Ana	alyst:	VP
Chloride	ND	60	mg/Kg	20	7/6/2021 3:49:48 P	M	61106
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	alyst:	SB
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	7/4/2021 12:59:14	AM	61039
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/4/2021 12:59:14	AM	61039
Surr: DNOP	120	70-130	%Rec	1	7/4/2021 12:59:14	AM	61039
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/3/2021 9:09:17 A	М	61022
Surr: BFB	103	70-130	%Rec	1	7/3/2021 9:09:17 A	М	61022
EPA METHOD 8021B: VOLATILES					Ana	alyst:	NSB
Benzene	ND	0.023	mg/Kg	1	7/3/2021 9:09:17 A	М	61022
Toluene	ND	0.047	mg/Kg	1	7/3/2021 9:09:17 A	M	61022
Ethylbenzene	ND	0.047	mg/Kg	1	7/3/2021 9:09:17 A	M	61022
Xylenes, Total	ND	0.093	mg/Kg	1	7/3/2021 9:09:17 A	М	61022
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	7/3/2021 9:09:17 A	M	61022

**Lab ID:** 2106E76-011 **Collection Date:** 6/28/2021 9:45:00 AM

Client Sample ID: TP13-S Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed E	Satch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	ND	60	mg/Kg	20	7/6/2021 4:02:13 PM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/6/2021 4:55:39 PM	61039
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/6/2021 4:55:39 PM	61039
Surr: DNOP	74.2	70-130	%Rec	1	7/6/2021 4:55:39 PM	61039
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/3/2021 9:32:46 AM	61022
Surr: BFB	101	70-130	%Rec	1	7/3/2021 9:32:46 AM	61022
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/3/2021 9:32:46 AM	61022
Toluene	ND	0.049	mg/Kg	1	7/3/2021 9:32:46 AM	61022
Ethylbenzene	ND	0.049	mg/Kg	1	7/3/2021 9:32:46 AM	61022
Xylenes, Total	ND	0.097	mg/Kg	1	7/3/2021 9:32:46 AM	61022
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	7/3/2021 9:32:46 AM	61022

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-012 **Collection Date:** 6/28/2021 9:55:00 AM

Client Sample ID: TP13-2 Matrix: SOIL

Chem Sumple ID: 11 10 2	William Soll							
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID		
EPA METHOD 300.0: ANIONS					Anal	lyst: <b>VP</b>		
Chloride	ND	60	mg/Kg	20	7/6/2021 11:54:02 A	M 61120		
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Anal	lyst: <b>SB</b>		
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/4/2021 1:46:56 AM	M 61039		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/4/2021 1:46:56 AM	M 61039		
Surr: DNOP	115	70-130	%Rec	1	7/4/2021 1:46:56 AM	M 61039		
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: <b>NSB</b>		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/3/2021 9:56:18 AM	M 61022		
Surr: BFB	102	70-130	%Rec	1	7/3/2021 9:56:18 AM	M 61022		
EPA METHOD 8021B: VOLATILES					Anal	yst: <b>NSB</b>		
Benzene	ND	0.024	mg/Kg	1	7/3/2021 9:56:18 AM	M 61022		
Toluene	ND	0.048	mg/Kg	1	7/3/2021 9:56:18 AM	M 61022		
Ethylbenzene	ND	0.048	mg/Kg	1	7/3/2021 9:56:18 AM	M 61022		
Xylenes, Total	ND	0.095	mg/Kg	1	7/3/2021 9:56:18 AM	M 61022		
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	7/3/2021 9:56:18 AM	M 61022		

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-013 **Collection Date:** 6/28/2021 10:00:00 AM

Client Sample ID: TP14-S Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed Ba	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	120	60	mg/Kg	20	7/6/2021 12:06:26 PM	61120
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/6/2021 5:19:40 PM	61039
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/6/2021 5:19:40 PM	61039
Surr: DNOP	71.6	70-130	%Rec	1	7/6/2021 5:19:40 PM	61039
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/3/2021 10:19:48 AM	61022
Surr: BFB	102	70-130	%Rec	1	7/3/2021 10:19:48 AM	61022
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	7/3/2021 10:19:48 AM	61022
Toluene	ND	0.046	mg/Kg	1	7/3/2021 10:19:48 AM	61022
Ethylbenzene	ND	0.046	mg/Kg	1	7/3/2021 10:19:48 AM	61022
Xylenes, Total	ND	0.093	mg/Kg	1	7/3/2021 10:19:48 AM	61022
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	7/3/2021 10:19:48 AM	61022

**Lab ID:** 2106E76-014 **Collection Date:** 6/28/2021 10:05:00 AM

Client Sample ID: TP14-2 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: <b>VP</b>
Chloride	100	60	mg/Kg	20	7/6/2021 12:18:51 PM	61120
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/4/2021 2:34:36 AM	61039
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/4/2021 2:34:36 AM	61039
Surr: DNOP	93.2	70-130	%Rec	1	7/4/2021 2:34:36 AM	61039
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/3/2021 10:43:19 AM	61022
Surr: BFB	99.8	70-130	%Rec	1	7/3/2021 10:43:19 AM	61022
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/3/2021 10:43:19 AM	61022
Toluene	ND	0.049	mg/Kg	1	7/3/2021 10:43:19 AM	61022
Ethylbenzene	ND	0.049	mg/Kg	1	7/3/2021 10:43:19 AM	61022
Xylenes, Total	ND	0.099	mg/Kg	1	7/3/2021 10:43:19 AM	61022
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	7/3/2021 10:43:19 AM	61022

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

### Hall Environmental Analysis Laboratory, Inc.

GHD Midland

2106E76

Lab Order:

**Project:** Jackson B 33

**CLIENT:** 

**Lab ID:** 2106E76-015 **Collection Date:** 6/28/2021 10:10:00 AM

Client Sample ID: TP15-S Matrix: SOIL

		Matrix	: SC	)IL	
Result	RL Qual	Units	DF	Date Analyzed	Batch ID
				Analy	rst: <b>VP</b>
ND	60	mg/Kg	20	7/6/2021 12:56:06 PM	M 61120
				Analy	st: <b>JMR</b>
ND	4.8	mg/Kg	1	7/1/2021 9:19:33 PM	61027
97.7	70-130	%Rec	1	7/1/2021 9:19:33 PM	61027
NICS				Analy	st: SB
ND	8.8	mg/Kg	1	7/1/2021 11:14:43 A	M 61050
ND	44	mg/Kg	1	7/1/2021 11:14:43 AM	M 61050
123	70-130	%Rec	1	7/1/2021 11:14:43 A	M 61050
-				Analy	st: <b>JMR</b>
ND	0.024	mg/Kg	1	7/1/2021 9:19:33 PM	61027
ND	0.048	mg/Kg	1	7/1/2021 9:19:33 PM	61027
ND	0.048	mg/Kg	1	7/1/2021 9:19:33 PM	61027
ND	0.096	mg/Kg	1	7/1/2021 9:19:33 PM	61027
100	70-130	%Rec	1	7/1/2021 9:19:33 PM	61027
97.7	70-130	%Rec	1	7/1/2021 9:19:33 PM	61027
102	70-130	%Rec	1	7/1/2021 9:19:33 PM	61027
99.4	70-130	%Rec	1	7/1/2021 9:19:33 PM	61027
	ND 97.7 ANICS ND ND 123 T ND ND ND ND ND 100 97.7 102	ND 60  ND 4.8 97.7 70-130  ANICS  ND 8.8 ND 44 123 70-130  ND 0.024 ND 0.048 ND 0.048 ND 0.048 ND 0.096 100 70-130 97.7 70-130 102 70-130	Result         RL         Qual         Units           ND         60         mg/Kg           97.7         70-130         %Rec           ANICS         ND         8.8         mg/Kg           ND         44         mg/Kg           123         70-130         %Rec           ND         0.024         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.096         mg/Kg           ND         0.096 </td <td>Result         RL         Qual         Units         DF           ND         60         mg/Kg         20           ND         4.8         mg/Kg         1           97.7         70-130         %Rec         1           ANICS         ND         8.8         mg/Kg         1           ND         44         mg/Kg         1           123         70-130         %Rec         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.096         mg/Kg         1           100         70-130         %Rec         1           97.7         70-130         %Rec         1           102         70-130         %Rec         1</td> <td>Analy  ND 60 mg/Kg 20 7/6/2021 12:56:06 PM  Analy  ND 4.8 mg/Kg 1 7/1/2021 9:19:33 PM  97.7 70-130 %Rec 1 7/1/2021 9:19:33 PM  ANICS  ND 8.8 mg/Kg 1 7/1/2021 11:14:43 AM  ND 44 mg/Kg 1 7/1/2021 11:14:43 AM  ND 44 mg/Kg 1 7/1/2021 11:14:43 AM  123 70-130 %Rec 1 7/1/2021 11:14:43 AM  ND 0.024 mg/Kg 1 7/1/2021 9:19:33 PM  ND 0.048 mg/Kg 1 7/1/2021 9:19:33 PM  ND 0.048 mg/Kg 1 7/1/2021 9:19:33 PM  ND 0.048 mg/Kg 1 7/1/2021 9:19:33 PM  ND 0.096 mg/Kg 1 7/1/2021 9:19:33 PM</td>	Result         RL         Qual         Units         DF           ND         60         mg/Kg         20           ND         4.8         mg/Kg         1           97.7         70-130         %Rec         1           ANICS         ND         8.8         mg/Kg         1           ND         44         mg/Kg         1           123         70-130         %Rec         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.096         mg/Kg         1           100         70-130         %Rec         1           97.7         70-130         %Rec         1           102         70-130         %Rec         1	Analy  ND 60 mg/Kg 20 7/6/2021 12:56:06 PM  Analy  ND 4.8 mg/Kg 1 7/1/2021 9:19:33 PM  97.7 70-130 %Rec 1 7/1/2021 9:19:33 PM  ANICS  ND 8.8 mg/Kg 1 7/1/2021 11:14:43 AM  ND 44 mg/Kg 1 7/1/2021 11:14:43 AM  ND 44 mg/Kg 1 7/1/2021 11:14:43 AM  123 70-130 %Rec 1 7/1/2021 11:14:43 AM  ND 0.024 mg/Kg 1 7/1/2021 9:19:33 PM  ND 0.048 mg/Kg 1 7/1/2021 9:19:33 PM  ND 0.048 mg/Kg 1 7/1/2021 9:19:33 PM  ND 0.048 mg/Kg 1 7/1/2021 9:19:33 PM  ND 0.096 mg/Kg 1 7/1/2021 9:19:33 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

## Hall Environmental Analysis Laboratory, Inc.

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2106E76

Lab Order:

CLIENT: GHD Midland

**Project:** Jackson B 33

**Lab ID:** 2106E76-016 **Collection Date:** 6/28/2021 10:15:00 AM

Client Sample ID: TP15-2 Matrix: SOIL

Chem Sumple 22 v == == =			1124412	• ~ ~		
Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: <b>VP</b>
Chloride	ND	59	mg/Kg	20	7/6/2021 1:08:30 PM	61120
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>					Analy	st: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/1/2021 9:48:11 PM	61027
Surr: BFB	98.8	70-130	%Rec	1	7/1/2021 9:48:11 PM	61027
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analy	st: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	7/1/2021 3:53:04 PM	61050
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	7/1/2021 3:53:04 PM	61050
Surr: DNOP	108	70-130	%Rec	1	7/1/2021 3:53:04 PM	61050
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analy	st: <b>JMR</b>
Benzene	ND	0.024	mg/Kg	1	7/1/2021 9:48:11 PM	61027
Toluene	ND	0.049	mg/Kg	1	7/1/2021 9:48:11 PM	61027
Ethylbenzene	ND	0.049	mg/Kg	1	7/1/2021 9:48:11 PM	61027
Xylenes, Total	ND	0.098	mg/Kg	1	7/1/2021 9:48:11 PM	61027
Surr: 1,2-Dichloroethane-d4	99.7	70-130	%Rec	1	7/1/2021 9:48:11 PM	61027
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	7/1/2021 9:48:11 PM	61027
Surr: Dibromofluoromethane	102	70-130	%Rec	1	7/1/2021 9:48:11 PM	61027
Surr: Toluene-d8	93.2	70-130	%Rec	1	7/1/2021 9:48:11 PM	61027

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-017 **Collection Date:** 6/28/2021 10:30:00 AM

Client Sample ID: TP4-4 Matrix: SOIL

3 3	20	Analyst: <b>JMR</b>
mg/Kg		7/6/2021 1:20:55 PM 61120 Analyst: <b>JMR</b>
mg/Kg		Analyst: <b>JMR</b>
3 3	1	·
3 3	1	
		7/1/2021 10:16:48 PM 61027
%Rec	1	7/1/2021 10:16:48 PM 61027
		Analyst: SB
mg/Kg	1	7/1/2021 11:34:20 AM 61050
mg/Kg	1	7/1/2021 11:34:20 AM 61050
%Rec	1	7/1/2021 11:34:20 AM 61050
		Analyst: <b>JMR</b>
mg/Kg	1	7/1/2021 10:16:48 PM 61027
mg/Kg	1	7/1/2021 10:16:48 PM 61027
mg/Kg	1	7/1/2021 10:16:48 PM 61027
mg/Kg	1	7/1/2021 10:16:48 PM 61027
%Rec	1	7/1/2021 10:16:48 PM 61027
%Rec	1	7/1/2021 10:16:48 PM 61027
%Rec	1	7/1/2021 10:16:48 PM 61027
%Rec	1	7/1/2021 10:16:48 PM 61027
)   	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	mg/Kg 1 mg/Kg 1 %Rec 1 mg/Kg 1

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-018 **Collection Date:** 6/28/2021 10:45:00 AM

Client Sample ID: TP7-6 Matrix: SOIL

Analyses         Result         RL         Qual         Units         DF         Date Analyzed         Bate Analyzed           EPA METHOD 300.0: ANIONS         Analyst           Chloride         65         60         mg/Kg         20         7/6/2021 1:33:19 PM           EPA METHOD 8015D MOD: GASOLINE RANGE         Analyst         Analyst           Gasoline Range Organics (GRO)         ND         4.8         mg/Kg         1         7/2/2021 3:02:36 AM           Surr: BFB         96.1         70-130         %Rec         1         7/2/2021 3:02:36 AM           EPA METHOD 8015M/D: DIESEL RANGE ORGANICS         Analyst           Diesel Range Organics (DRO)         ND         8.9         mg/Kg         1         7/1/2021 11:44:08 AM           Motor Oil Range Organics (MRO)         ND         45         mg/Kg         1         7/1/2021 11:44:08 AM           Surr: DNOP         122         70-130         %Rec         1         7/1/2021 11:44:08 AM           EPA METHOD 8260B: VOLATILES SHORT LIST         Analyst           Benzene         ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM           Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM <td< th=""><th></th></td<>	
Chloride         65         60         mg/Kg         20         7/6/2021 1:33:19 PM           EPA METHOD 8015D MOD: GASOLINE RANGE           Gasoline Range Organics (GRO)         ND         4.8         mg/Kg         1         7/2/2021 3:02:36 AM           Surr: BFB         96.1         70-130         %Rec         1         7/2/2021 3:02:36 AM           EPA METHOD 8015M/D: DIESEL RANGE ORGANICS         Analyst:           Diesel Range Organics (DRO)         ND         8.9         mg/Kg         1         7/1/2021 11:44:08 AM           Motor Oil Range Organics (MRO)         ND         45         mg/Kg         1         7/1/2021 11:44:08 AM           Surr: DNOP         122         70-130         %Rec         1         7/1/2021 11:44:08 AM           EPA METHOD 8260B: VOLATILES SHORT LIST         Analyst:           Benzene         ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM           Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	ch ID
### EPA METHOD 8015D MOD: GASOLINE RANGE  Gasoline Range Organics (GRO)  Surr: BFB  96.1  70-130  MRec  1  7/2/2021 3:02:36 AM  **Rec  1  7/1/2021 11:44:08 AM  **Motor Oil Range Organics (MRO)  Surr: DNOP  122  70-130  MRec  1  7/1/2021 11:44:08 AM  **Merthod 8260B: VOLATILES SHORT LIST  **Rec  ND  0.024  Mg/Kg  1  7/1/2021 11:44:08 AM  **Merthod 8260B: VOLATILES SHORT LIST  **Rec  **Rec  1  7/1/2021 11:44:08 AM  **Merthod 8260B: VOLATILES SHORT LIST  **Rec  **Analyst:  **Analy	VP
Gasoline Range Organics (GRO)         ND         4.8         mg/Kg         1         7/2/2021 3:02:36 AM           Surr: BFB         96.1         70-130         %Rec         1         7/2/2021 3:02:36 AM           EPA METHOD 8015M/D: DIESEL RANGE ORGANICS           Diesel Range Organics (DRO)         ND         8.9         mg/Kg         1         7/1/2021 11:44:08 AM           Motor Oil Range Organics (MRO)         ND         45         mg/Kg         1         7/1/2021 11:44:08 AM           Surr: DNOP         122         70-130         %Rec         1         7/1/2021 11:44:08 AM           EPA METHOD 8260B: VOLATILES SHORT LIST         Analyst:           Benzene         ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM           Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	61120
Surr: BFB         96.1         70-130         %Rec         1         7/2/2021 3:02:36 AM           EPA METHOD 8015M/D: DIESEL RANGE ORGANICS         Analyst:           Diesel Range Organics (DRO)         ND         8.9         mg/Kg         1         7/1/2021 11:44:08 AM         7/1/2021 11:44:08 AM         M         M         Motor Oil Range Organics (MRO)         ND         45         mg/Kg         1         7/1/2021 11:44:08 AM         AM         M         Surr: DNOP         122         70-130         %Rec         1         7/1/2021 11:44:08 AM         AM         M         EPA METHOD 8260B: VOLATILES SHORT LIST         Analyst:           Benzene         ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM         T         Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM         T         T         T         7/2/2021 3:02:36 AM         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM         ND         0.096         0.096         0.096         0.096         ND	JMR
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS         Analyst: Diesel Range Organics (DRO)         ND         8.9         mg/Kg         1         7/1/2021 11:44:08 AM           Motor Oil Range Organics (MRO)         ND         45         mg/Kg         1         7/1/2021 11:44:08 AM           Surr: DNOP         122         70-130         %Rec         1         7/1/2021 11:44:08 AM           EPA METHOD 8260B: VOLATILES SHORT LIST         Analyst: Benzene           ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM           Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	61027
Diesel Range Organics (DRO)         ND         8.9         mg/Kg         1         7/1/2021 11:44:08 AM           Motor Oil Range Organics (MRO)         ND         45         mg/Kg         1         7/1/2021 11:44:08 AM           Surr: DNOP         122         70-130         %Rec         1         7/1/2021 11:44:08 AM           EPA METHOD 8260B: VOLATILES SHORT LIST         Analyst:           Benzene         ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM           Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	61027
Motor Oil Range Organics (MRO)         ND         45         mg/Kg         1         7/1/2021 11:44:08 AM           Surr: DNOP         122         70-130         %Rec         1         7/1/2021 11:44:08 AM           EPA METHOD 8260B: VOLATILES SHORT LIST         Analyst: A	SB
Surr: DNOP         122         70-130         %Rec         1         7/1/2021 11:44:08 AM           EPA METHOD 8260B: VOLATILES SHORT LIST           Benzene         ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM           Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	61050
EPA METHOD 8260B: VOLATILES SHORT LIST         Analyst:           Benzene         ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM           Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	61050
Benzene         ND         0.024         mg/Kg         1         7/2/2021 3:02:36 AM           Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	61050
Toluene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	JMR
Ethylbenzene         ND         0.048         mg/Kg         1         7/2/2021 3:02:36 AM           Xylenes, Total         ND         0.096         mg/Kg         1         7/2/2021 3:02:36 AM	61027
Xylenes, Total ND 0.096 mg/Kg 1 7/2/2021 3:02:36 AM	61027
, 1 11, 11	61027
Surr: 1,2-Dichloroethane-d4 95.4 70-130 %Rec 1 7/2/2021 3:02:36 AM	61027
	61027
Surr: 4-Bromofluorobenzene 99.8 70-130 %Rec 1 7/2/2021 3:02:36 AM	61027
Surr: Dibromofluoromethane 98.1 70-130 %Rec 1 7/2/2021 3:02:36 AM	61027
Surr: Toluene-d8 95.9 70-130 %Rec 1 7/2/2021 3:02:36 AM	61027

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order: **2106E76**Date Reported: **7/9/2021** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-019 **Collection Date:** 6/28/2021 11:00:00 AM

Client Sample ID: TP6-4 Matrix: SOIL

**Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 280 60 mg/Kg 7/6/2021 1:45:43 PM 61120 20 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 7/2/2021 3:31:12 AM 61027 4.9 mg/Kg 1 Surr: BFB 101 70-130 %Rec 1 7/2/2021 3:31:12 AM 61027 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 7/1/2021 11:54:01 AM 61050 1 Motor Oil Range Organics (MRO) 61050 ND 48 mg/Kg 1 7/1/2021 11:54:01 AM Surr: DNOP 128 70-130 %Rec 7/1/2021 11:54:01 AM 61050 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR Benzene ND 0.024 7/2/2021 3:31:12 AM 61027 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/2/2021 3:31:12 AM 61027 Ethylbenzene ND 0.049 mg/Kg 1 7/2/2021 3:31:12 AM 61027 Xylenes, Total ND 0.097 mg/Kg 1 7/2/2021 3:31:12 AM 61027 Surr: 1,2-Dichloroethane-d4 102 70-130 %Rec 1 7/2/2021 3:31:12 AM 61027 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 7/2/2021 3:31:12 AM 61027 Surr: Dibromofluoromethane 101 70-130 %Rec 7/2/2021 3:31:12 AM 61027 1 Surr: Toluene-d8 100 70-130 %Rec 7/2/2021 3:31:12 AM 61027

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2106E76** *09-Jul-21* 

Client: GHD Midland
Project: Jackson B 33

Sample ID: MB-61106 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61106 RunNo: 79537

Prep Date: 7/2/2021 Analysis Date: 7/2/2021 SeqNo: 2798059 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-61106 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61106 RunNo: 79537

Prep Date: 7/2/2021 Analysis Date: 7/2/2021 SeqNo: 2798060 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.8 90 110

Sample ID: LCS-61120 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61120 RunNo: 79587

Prep Date: 7/6/2021 Analysis Date: 7/6/2021 SeqNo: 2799387 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.3 90 110

Sample ID: MB-61120 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61120 RunNo: 79587

Prep Date: 7/6/2021 Analysis Date: 7/6/2021 SeqNo: 2799388 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

50

5.4

10

50.00

5.000

WO#: **2106E76** 

09-Jul-21

Client: GHD Midland Project: Jackson B 33

Sample ID: LCS-61050	SampType: LCS	TestCode: EPA Mo	ethod 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 61050	RunNo: <b>79506</b>	
Prep Date: 6/30/2021	Analysis Date: 7/1/2021	SeqNo: <b>279528</b>	38 Units: mg/Kg
Analyte	Result PQL SPK	alue SPK Ref Val %REC Low	Limit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	50 10 5	50.00 0 101	68.9 141
Surr: DNOP	5.1	5.000 102	70 130
Sample ID: MB-61050	SampType: MBLK	TestCode: EPA Me	ethod 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61050	RunNo: <b>79506</b>	
Prep Date: 6/30/2021	Analysis Date: 7/1/2021	SeqNo: <b>279529</b>	00 Units: mg/Kg
Analyte	Result PQL SPK	/alue SPK Ref Val %REC Low	Limit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	10	0.00 102	70 130
Sample ID: MB-61039	SampType: MBLK	TestCode: EPA Me	ethod 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61039	RunNo: <b>79583</b>	
Prep Date: 6/30/2021	Analysis Date: 7/3/2021	SeqNo: <b>279890</b>	Units: mg/Kg
Analyte	Result PQL SPK	alue SPK Ref Val %REC Low	Limit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	9.9	0.00 99.3	70 130
Sample ID: LCS-61039	SampType: LCS	TestCode: EPA Me	ethod 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 61039	RunNo: <b>79583</b>	
Prep Date: 6/30/2021	Analysis Date: 7/3/2021	SeqNo: <b>279890</b>	04 Units: mg/Kg
Analyte	Result PQL SPK	value SPK Ref Val %REC Low	/Limit HighLimit %RPD RPDLimit Qual

0

100

109

68.9

70

141

130

#### Qualifiers:

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

Diesel Range Organics (DRO)

Surr: DNOP

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Jackson B 33

**Project:** 

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2106E76

09-Jul-21

**Client:** GHD Midland

Sample ID: mb-61022 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61022 RunNo: 79564

Prep Date: 6/29/2021 Analysis Date: 7/3/2021 SeqNo: 2797811 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result

130

130

Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 990 1000 99.4 70

Sample ID: Ics-61022 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61022 RunNo: 79564

Prep Date: 6/29/2021 Analysis Date: 7/2/2021 SeqNo: 2797812 Units: mg/Kg

1000

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 23 5.0 25.00 0 92.1 78.6 131 Surr: BFB 1100 107 70

#### 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

0.99

WO#: **2106E76 09-Jul-21** 

Client: GHD Midland
Project: Jackson B 33

 Sample ID:
 mb-61022
 SampType:
 MBLK
 TestCode:
 EPA Method 8021B:
 Volatiles

 Client ID:
 PBS
 Batch ID:
 61022
 RunNo:
 79564

 Prep Date:
 6/29/2021
 Analysis Date:
 7/3/2021
 SeqNo:
 2797869
 Units:
 mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 1.0
 1.000
 100
 70
 130

1.000

Sample ID: LCS-61022	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	n ID: <b>61</b> 0	022	F	RunNo: <b>7</b> 9	9564				
Prep Date: 6/29/2021	Analysis D	Date: 7/	2/2021	5	SeqNo: 2	797870	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.2	80	120			
Toluene	0.87	0.050	1.000	0	87.2	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120			

98.7

70

130

#### Qualifiers:

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

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2106E76** 

09-Jul-21

Client: GHD Midland
Project: Jackson B 33

Sample ID: Ics-61027	SampT	ype: <b>LC</b>	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: BatchQC	Batch	n ID: <b>61</b> 0	027	F	RunNo: <b>7</b> 9	9525				
Prep Date: 6/29/2021	Analysis D	Date: 7/	1/2021	9	SeqNo: 2	796932	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	80	120			
Toluene	0.89	0.050	1.000	0	88.8	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.6	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.49		0.5000		98.4	70	130			

Sample ID: mb-61027	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	n ID: <b>61</b> 0	027	F	RunNo: <b>7</b> 9	9525				
Prep Date: 6/29/2021	Analysis D	oate: <b>7/</b>	1/2021	9	SeqNo: 2	796934	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2106E76 09-Jul-21** 

Client: GHD Midland
Project: Jackson B 33

Sample ID: Ics-61027 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 61027 RunNo: 79525

Prep Date: 6/29/2021 Analysis Date: 7/1/2021 SeqNo: 2796980 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 0 Gasoline Range Organics (GRO) 26 5.0 25.00 103 70 130 Surr: BFB 520 500.0 104 70 130

Sample ID: mb-61027 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 61027 RunNo: 79525

Prep Date: 6/29/2021 Analysis Date: 7/1/2021 SeqNo: 2796982 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 490 500.0 98.5 70 130

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Name: GHD Work Order Number: 2106E76 RcptNo: 1 Received By: Juan Rojas 6/28/2021 4:02:00 PM Completed By: Cheyenne Cason 6/29/2021 7:48:56 AM Reviewed By: JR6/29/21 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🔲 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes V NA 🗌 Sample(s) in proper container(s)? No 🗍 Yes V 6. Sufficient sample volume for indicated test(s)? Yes V No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes V No No V 8. Was preservative added to bottles? Yes \_ NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No | NA V Yes 🗌 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🔲 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes V No 🗌 13. Is it clear what analyses were requested? Yes V Checked by: SPA 6, 29, 21 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: Phone Fax Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No. Temp °C Condition Seal Intact Seal No Seal Date Signed By 4.6 Good

Received by OCD: 9/1/2021	<i>10</i> :	18:19 AM																	\$	ige 8	85 of .	113
HALL ENVIRONMENTAI ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	bcB <sub>i</sub> s O \ wgo)	\$08\ \$08\ \$08\ \$2\ \$0 \$2\ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	(GE)	estici Metho by 83 8 Met 8 Met 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	TEH:80 8081 P PAHs L RCRA CI, F, E CI, F, E	2											>	Remarks: Please emper   Jech common GUD. con	about with others lished above	Die Bill L. W. die CAL	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
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	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analysis	intracted to other accr	edited laboratories	C/29/21/2. This serves as notice of this	possibilit	V. Any s	ub-cont	acted da	O st	Search	2 notated	Name of the	Settle Milital report		f 113



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

August 02, 2021

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

**FAX** 

RE: Jackson B 33 OrderNo.: 2107B84

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 14 sample(s) on 7/23/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-25

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 9:15:00 AM

 Lab ID:
 2107B84-001
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	2300	60		mg/Kg	20	7/29/2021 5:09:49 AM	61633
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/27/2021 2:11:16 PM	61556
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/27/2021 2:11:16 PM	61556
Surr: DNOP	146	70-130	S	%Rec	1	7/27/2021 2:11:16 PM	61556
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Surr: BFB	109	70-130		%Rec	1	7/28/2021 12:06:12 PM	61536
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	ND	0.025		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Toluene	ND	0.050		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Ethylbenzene	ND	0.050		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Xylenes, Total	ND	0.10		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/28/2021 12:06:12 PM	61536

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-30

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 9:45:00 AM

 Lab ID:
 2107B84-002
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	1700	60		mg/Kg	20	7/29/2021 5:22:14 AM	61633
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	27	9.9		mg/Kg	1	7/27/2021 5:08:44 PM	61571
Motor Oil Range Organics (MRO)	73	49		mg/Kg	1	7/27/2021 5:08:44 PM	61571
Surr: DNOP	134	70-130	S	%Rec	1	7/27/2021 5:08:44 PM	61571
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Surr: BFB	121	70-130		%Rec	1	7/28/2021 11:16:00 AM	61543
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst	CCM
Benzene	ND	0.025		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Xylenes, Total	ND	0.099		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	7/28/2021 11:16:00 AM	61543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-35

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 10:45:00 AM

 Lab ID:
 2107B84-003
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: <b>VF</b>	Р
Chloride	1900	60	mg/Kg	20	7/29/2021 5:34:39 AM 61	1633
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SE	В
Diesel Range Organics (DRO)	61	9.5	mg/Kg	1	7/27/2021 2:04:15 PM 61	1571
Motor Oil Range Organics (MRO)	82	48	mg/Kg	1	7/27/2021 2:04:15 PM 61	1571
Surr: DNOP	120	70-130	%Rec	1	7/27/2021 2:04:15 PM 61	1571
EPA METHOD 8015D: GASOLINE RANGE					Analyst: Co	СМ
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2021 12:15:00 PM 61	1543
Surr: BFB	114	70-130	%Rec	1	7/28/2021 12:15:00 PM 61	1543
EPA METHOD 8021B: VOLATILES					Analyst: Co	СМ
Benzene	ND	0.025	mg/Kg	1	7/28/2021 12:15:00 PM 61	1543
Toluene	ND	0.049	mg/Kg	1	7/28/2021 12:15:00 PM 61	1543
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2021 12:15:00 PM 61	1543
Xylenes, Total	ND	0.099	mg/Kg	1	7/28/2021 12:15:00 PM 61	1543
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	7/28/2021 12:15:00 PM 61	1543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-40

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 11:00:00 AM

 Lab ID:
 2107B84-004
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1700	60	mg/Kg	20	7/29/2021 11:10:22 AM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/27/2021 2:16:36 PM	61571
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/27/2021 2:16:36 PM	61571
Surr: DNOP	120	70-130	%Rec	1	7/27/2021 2:16:36 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/28/2021 5:56:00 PM	61543
Surr: BFB	101	70-130	%Rec	1	7/28/2021 5:56:00 PM	61543
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	7/28/2021 5:56:00 PM	61543
Toluene	ND	0.050	mg/Kg	1	7/28/2021 5:56:00 PM	61543
Ethylbenzene	ND	0.050	mg/Kg	1	7/28/2021 5:56:00 PM	61543
Xylenes, Total	ND	0.099	mg/Kg	1	7/28/2021 5:56:00 PM	61543
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	7/28/2021 5:56:00 PM	61543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-45

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 11:20:00 AM

 Lab ID:
 2107B84-005
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: ЈМТ
Chloride	1800	75	mg/Kg	50	7/30/2021 8:30:36 AM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/27/2021 2:29:02 PM	61571
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/27/2021 2:29:02 PM	61571
Surr: DNOP	121	70-130	%Rec	1	7/27/2021 2:29:02 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2021 6:16:00 PM	61543
Surr: BFB	99.0	70-130	%Rec	1	7/28/2021 6:16:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	:: CCM
Benzene	ND	0.024	mg/Kg	1	7/28/2021 6:16:00 PM	61543
Toluene	ND	0.049	mg/Kg	1	7/28/2021 6:16:00 PM	61543
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2021 6:16:00 PM	61543
Xylenes, Total	ND	0.097	mg/Kg	1	7/28/2021 6:16:00 PM	61543
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	7/28/2021 6:16:00 PM	61543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-55

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 11:45:00 AM

 Lab ID:
 2107B84-006
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	4900	300	mg/Kg	100	7/30/2021 8:43:00 AM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: SB
Diesel Range Organics (DRO)	21	9.5	mg/Kg	1	7/27/2021 2:41:29 PM	61571
Motor Oil Range Organics (MRO)	48	47	mg/Kg	1	7/27/2021 2:41:29 PM	61571
Surr: DNOP	126	70-130	%Rec	1	7/27/2021 2:41:29 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2021 6:36:00 PM	61543
Surr: BFB	100	70-130	%Rec	1	7/28/2021 6:36:00 PM	61543
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	7/28/2021 6:36:00 PM	61543
Toluene	ND	0.049	mg/Kg	1	7/28/2021 6:36:00 PM	61543
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2021 6:36:00 PM	61543
Xylenes, Total	ND	0.098	mg/Kg	1	7/28/2021 6:36:00 PM	61543
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	7/28/2021 6:36:00 PM	61543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-60

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 1:00:00 PM

 Lab ID:
 2107B84-007
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	4300	150	mg/Kg	50	7/30/2021 8:55:25 AM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	19	9.9	mg/Kg	1	7/27/2021 2:53:54 PM	61571
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/27/2021 2:53:54 PM	61571
Surr: DNOP	111	70-130	%Rec	1	7/27/2021 2:53:54 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2021 6:56:00 PM	61543
Surr: BFB	109	70-130	%Rec	1	7/28/2021 6:56:00 PM	61543
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	7/28/2021 6:56:00 PM	61543
Toluene	ND	0.049	mg/Kg	1	7/28/2021 6:56:00 PM	61543
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2021 6:56:00 PM	61543
Xylenes, Total	ND	0.098	mg/Kg	1	7/28/2021 6:56:00 PM	61543
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	7/28/2021 6:56:00 PM	61543

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-70

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 1:40:00 PM

 Lab ID:
 2107B84-008
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	580	60	mg/Kg	20	7/29/2021 12:00:01 PM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/27/2021 3:06:17 PM	61571
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/27/2021 3:06:17 PM	61571
Surr: DNOP	128	70-130	%Rec	1	7/27/2021 3:06:17 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2021 7:17:00 PM	61543
Surr: BFB	95.9	70-130	%Rec	1	7/28/2021 7:17:00 PM	61543
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	7/28/2021 7:17:00 PM	61543
Toluene	ND	0.049	mg/Kg	1	7/28/2021 7:17:00 PM	61543
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2021 7:17:00 PM	61543
Xylenes, Total	ND	0.098	mg/Kg	1	7/28/2021 7:17:00 PM	61543
Surr: 4-Bromofluorobenzene	87.7	70-130	%Rec	1	7/28/2021 7:17:00 PM	61543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-75

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 2:40:00 PM

 Lab ID:
 2107B84-009
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: <b>VP</b>
Chloride	1700	60	mg/Kg	20	7/29/2021 12:12:25 PM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	21	9.9	mg/Kg	1	7/27/2021 3:18:35 PM	61571
Motor Oil Range Organics (MRO)	98	49	mg/Kg	1	7/27/2021 3:18:35 PM	61571
Surr: DNOP	124	70-130	%Rec	1	7/27/2021 3:18:35 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/28/2021 7:37:00 PM	61543
Surr: BFB	100	70-130	%Rec	1	7/28/2021 7:37:00 PM	61543
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	7/28/2021 7:37:00 PM	61543
Toluene	ND	0.050	mg/Kg	1	7/28/2021 7:37:00 PM	61543
Ethylbenzene	ND	0.050	mg/Kg	1	7/28/2021 7:37:00 PM	61543
Xylenes, Total	ND	0.10	mg/Kg	1	7/28/2021 7:37:00 PM	61543
Surr: 4-Bromofluorobenzene	86.3	70-130	%Rec	1	7/28/2021 7:37:00 PM	61543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-80

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 3:10:00 PM

 Lab ID:
 2107B84-010
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1300	60	mg/Kg	20	7/29/2021 12:49:39 PM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	33	9.4	mg/Kg	1	7/27/2021 3:30:59 PM	61571
Motor Oil Range Organics (MRO)	110	47	mg/Kg	1	7/27/2021 3:30:59 PM	61571
Surr: DNOP	129	70-130	%Rec	1	7/27/2021 3:30:59 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/28/2021 7:57:00 PM	61543
Surr: BFB	105	70-130	%Rec	1	7/28/2021 7:57:00 PM	61543
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	7/28/2021 7:57:00 PM	61543
Toluene	ND	0.050	mg/Kg	1	7/28/2021 7:57:00 PM	61543
Ethylbenzene	ND	0.050	mg/Kg	1	7/28/2021 7:57:00 PM	61543
Xylenes, Total	ND	0.099	mg/Kg	1	7/28/2021 7:57:00 PM	61543
Surr: 4-Bromofluorobenzene	90.7	70-130	%Rec	1	7/28/2021 7:57:00 PM	61543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-85

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 3:40:00 PM

 Lab ID:
 2107B84-011
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2100	60	mg/Kg	20	7/29/2021 1:02:03 PM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	14	9.6	mg/Kg	1	7/27/2021 3:43:34 PM	61571
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/27/2021 3:43:34 PM	61571
Surr: DNOP	126	70-130	%Rec	1	7/27/2021 3:43:34 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2021 8:17:00 PM	61543
Surr: BFB	99.1	70-130	%Rec	1	7/28/2021 8:17:00 PM	61543
EPA METHOD 8021B: VOLATILES					Analyst	:: CCM
Benzene	ND	0.025	mg/Kg	1	7/28/2021 8:17:00 PM	61543
Toluene	ND	0.049	mg/Kg	1	7/28/2021 8:17:00 PM	61543
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2021 8:17:00 PM	61543
Xylenes, Total	ND	0.098	mg/Kg	1	7/28/2021 8:17:00 PM	61543
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	7/28/2021 8:17:00 PM	61543

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-90

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 4:10:00 PM

 Lab ID:
 2107B84-012
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	170	60		mg/Kg	20	7/29/2021 1:14:28 PM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/27/2021 3:56:05 PM	61571
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/27/2021 3:56:05 PM	61571
Surr: DNOP	136	70-130	S	%Rec	1	7/27/2021 3:56:05 PM	61571
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Surr: BFB	99.1	70-130		%Rec	1	7/28/2021 8:37:00 PM	61543
EPA METHOD 8021B: VOLATILES						Analyst	:: CCM
Benzene	ND	0.024		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Toluene	ND	0.048		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Ethylbenzene	ND	0.048		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Xylenes, Total	ND	0.097		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	7/28/2021 8:37:00 PM	61543

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-95

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 4:40:00 PM

 Lab ID:
 2107B84-013
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	120	60	mg/Kg	20	7/29/2021 1:26:53 PM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/27/2021 4:08:31 PM	61571
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/27/2021 4:08:31 PM	61571
Surr: DNOP	129	70-130	%Rec	1	7/27/2021 4:08:31 PM	61571
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/28/2021 9:57:00 PM	61543
Surr: BFB	101	70-130	%Rec	1	7/28/2021 9:57:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	7/28/2021 9:57:00 PM	61543
Toluene	ND	0.049	mg/Kg	1	7/28/2021 9:57:00 PM	61543
Ethylbenzene	ND	0.049	mg/Kg	1	7/28/2021 9:57:00 PM	61543
Xylenes, Total	ND	0.098	mg/Kg	1	7/28/2021 9:57:00 PM	61543
Surr: 4-Bromofluorobenzene	89.3	70-130	%Rec	1	7/28/2021 9:57:00 PM	61543

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/2/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-100

 Project:
 Jackson B 33
 Collection Date: 7/21/2021 4:50:00 PM

 Lab ID:
 2107B84-014
 Matrix: SOIL
 Received Date: 7/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	96	60		mg/Kg	20	7/29/2021 1:39:18 PM	61644
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/27/2021 4:20:53 PM	61571
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/27/2021 4:20:53 PM	61571
Surr: DNOP	130	70-130	S	%Rec	1	7/27/2021 4:20:53 PM	61571
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Surr: BFB	100	70-130		%Rec	1	7/28/2021 10:17:00 PM	61543
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.024		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Xylenes, Total	ND	0.097		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	7/28/2021 10:17:00 PM	61543

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

02-Aug-21

2107B84

WO#:

Client: GHD Midland Project: Jackson B 33

Sample ID: MB-61633 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61633 RunNo: 80149

Prep Date: 7/28/2021 Analysis Date: 7/28/2021 SeqNo: 2822160 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-61633 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61633 RunNo: 80149

Prep Date: 7/28/2021 Analysis Date: 7/28/2021 SeqNo: 2822161 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.1 90 110

Sample ID: MB-61644 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61644 RunNo: 80187

Prep Date: **7/29/2021** Analysis Date: **7/29/2021** SeqNo: **2823302** Units: **mg/Kg** 

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-61644 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61644 RunNo: 80187

Prep Date: 7/29/2021 Analysis Date: 7/29/2021 SeqNo: 2823303 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.6 90 110

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 2107B84 02-Aug-21

**Client: GHD** Midland **Project:** Jackson B 33

Troject. Jackson			
Sample ID: LCS-61556	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 61556	RunNo: 80098	
Prep Date: 7/26/2021	Analysis Date: 7/27/2021	SeqNo: <b>2819508</b>	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	55 10 50.00	0 109 68.9	141
Surr: DNOP	4.9 5.000	98.8 70	130
Sample ID: <b>MB-61556</b>	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61556	RunNo: 80098	
Prep Date: 7/26/2021	Analysis Date: 7/27/2021	SeqNo: <b>2819509</b>	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	13 10.00	127 70	130
Sample ID: <b>MB-61571</b>	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61571	RunNo: 80100	
Prep Date: 7/26/2021	Analysis Date: 7/27/2021	SeqNo: <b>2819515</b>	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	12 10.00	123 70	130
Sample ID: LCS-61571	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 61571	RunNo: 80100	
Prep Date: 7/26/2021	Analysis Date: 7/27/2021	SeqNo: <b>2819516</b>	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	58 10 50.00	0 116 68.9	141
Surr: DNOP	5.7 5.000	114 70	130
Sample ID: MB-61572	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61572	RunNo: 80098	
Prep Date: 7/26/2021	Analysis Date: 7/27/2021	SeqNo: <b>2820635</b>	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	12 10.00	123 70	130

#### 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

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

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#### Hall Environmental Analysis Laboratory, Inc.

2107B84 02-Aug-21

WO#:

**Client:** GHD Midland **Project:** Jackson B 33

Sample ID: LCS-61572 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 61572 RunNo: 80098

Prep Date: 7/26/2021 Analysis Date: 7/27/2021 SeqNo: 2820636 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 4.9 5.000 97.3 70 130

Sample ID: 2107B84-002AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: TP5-30 Batch ID: 61571 RunNo: 80100 Prep Date: 7/26/2021 Analysis Date: 7/27/2021 SeqNo: 2821150 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 54 9.8 49.02 20.75 68.4 15 184 Surr: DNOP 5.3 4.902 107 70 130

Sample ID: 2107B84-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: TP5-30 Batch ID: 61571 RunNo: 80100 Prep Date: 7/26/2021 Analysis Date: 7/27/2021 SeqNo: 2821151 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 45 10 48.3 15 Diesel Range Organics (DRO) 49.90 20.75 184 19.0 23.9 Surr: DNOP 5.1 4.990 101 70 130

Sample ID: MB-61603 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 61603 RunNo: 80141 Analysis Date: 7/28/2021 Prep Date: 7/27/2021 SeqNo: 2821624 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 10.00 70 9.8 98.1 130

Sample ID: LCS-61603 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 61603 RunNo: 80141 Prep Date: 7/27/2021 Analysis Date: 7/28/2021 SeqNo: 2821625 Units: %Rec SPK Ref Val %REC %RPD **RPDLimit** Analyte Result SPK value LowLimit HighLimit Qual

Surr: DNOP 116 70 130 5.8 5.000

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107B84 02-Aug-21** 

Client: GHD Midland

Project: Jackson B 33

Sample ID: mb-61536 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61536 RunNo: 80115

Prep Date: 7/23/2021 Analysis Date: 7/28/2021 SeqNo: 2820105 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

 Surr: BFB
 980
 1000
 98.2
 70
 130

Sample ID: Ics-61536 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61536 RunNo: 80115

Prep Date: 7/23/2021 Analysis Date: 7/27/2021 SeqNo: 2820106 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 O 95.5 78.6 131 Surr: BFB 1100 1000 109 70 130

Sample ID: Ics-61543 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61543 RunNo: 80145

Prep Date: 7/24/2021 Analysis Date: 7/28/2021 SeqNo: 2821695 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 109 78.6 131 Surr: BFB S 1400 1000 145 70 130

Sample ID: mb-61543 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS Batch ID: 61543 RunNo: 80145

Client ID. **PD3** Batch ID. **61343** Ruino. **60143** 

Prep Date: 7/24/2021 Analysis Date: 7/28/2021 SeqNo: 2821698 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1200

Sample ID: 2107B84-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: **TP5-30** Batch ID: **61543** RunNo: **80145** 

Prep Date: 7/24/2021 Analysis Date: 7/28/2021 SeqNo: 2821700 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 4.9 0 61.3 24.63 107 114 Surr: BFB 1300 985.2 132 70 130 S

Sample ID: 2107B84-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **TP5-30** Batch ID: **61543** RunNo: **80145** 

Prep Date: 7/24/2021 Analysis Date: 7/28/2021 SeqNo: 2821701 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

#### Qualifiers:

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

B Analyte detected in the associated Method Blank

116

70

130

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

0#: 2107B84 02-Aug-21

WO#:

Client: GHD Midland
Project: Jackson B 33

Sample ID: 2107B84-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range
Client ID: TP5-30 Batch ID: 61543 RunNo: 80145

Prep Date: 7/24/2021 Analysis Date: 7/28/2021 SeqNo: 2821701 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 24.90 0 Gasoline Range Organics (GRO) 26 5.0 103 61.3 114 2.27 20 Surr: BFB 1400 996.0 138 130 0 S

Sample ID: Ics-61570 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61570 RunNo: 80156

Prep Date: 7/26/2021 Analysis Date: 7/28/2021 SeqNo: 2822398 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1200 1000 120 70 130

Sample ID: mb-61570 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61570 RunNo: 80156

Prep Date: 7/26/2021 Analysis Date: 7/29/2021 SeqNo: 2822400 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1100 1000 106 70 130

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2107B84** 

02-Aug-21

Client: GHD Midland
Project: Jackson B 33

Sample ID: mb-61536	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: <b>61</b>	536	F	lunNo: 80	0115				
Prep Date: 7/23/2021	Analysis D	ate: 7/	28/2021	S	SeqNo: 28	820153	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: LCS-61536	SampT	Type: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: <b>61</b>	536	F	RunNo: 8	0115				
Prep Date: 7/23/2021	Analysis D	Date: <b>7/</b>	27/2021	8	SeqNo: 2	820154	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.8	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: Ics-61543	Sampl	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	h ID: <b>61</b>	543	F	RunNo: 8	0145				
Prep Date: 7/24/2021	Analysis D	Date: <b>7/</b>	28/2021	8	SeqNo: 2	821696	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: mb-61543	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: <b>61</b>	543	F	RunNo: 8	0145				
Prep Date: 7/24/2021	Analysis D	ate: 7/	28/2021	S	SeqNo: 2	821697	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2107B84

02-Aug-21

**Client:** GHD Midland **Project:** Jackson B 33

Surr: 4-Bromofluorobenzene

Sample ID: LCS-61570 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 61570 RunNo: 80156

Prep Date: 7/26/2021 Analysis Date: 7/28/2021 SeqNo: 2822450 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: 4-Bromofluorobenzene 1.1 1.000 106 70 130

Sample ID: mb-61570 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 61570 RunNo: 80156

1.0

Prep Date: 7/26/2021 Analysis Date: 7/29/2021 SeqNo: 2822452 Units: %Rec

1.000

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

101

130

Sample ID: 2107B84-003ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: TP5-35 Batch ID: 61543 RunNo: 80145 Prep Date: 7/24/2021 Analysis Date: 7/28/2021 SeqNo: 2822560 Units: mg/Kg SPK value SPK Ref Val PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result 0.88 0.025 0.9843 89.3 80 Benzene 0.9843 0 91.3 80 120 Toluene 0.90 0.049 Ethylbenzene 0.93 0.049 0.9843 0 94.1 80 120 0 Xylenes, Total 2.8 0.098 2.953 94.6 80 120 Surr: 4-Bromofluorobenzene 0.87 0.9843 88.7 70 130

Sample ID: 2107B84-003amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: TP5-35 Batch ID: 61543 RunNo: 80145

Prep Date: 7/24/2021	Analysis [	Date: <b>7/</b>	28/2021	8	SeqNo: 2	822561	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9756	0	92.2	80	120	2.35	20	
Toluene	0.92	0.049	0.9756	0	94.4	80	120	2.37	20	
Ethylbenzene	0.95	0.049	0.9756	0	97.7	80	120	2.92	20	
Xylenes, Total	2.9	0.098	2.927	0	98.9	80	120	3.49	20	
Surr: 4-Bromofluorobenzene	0.96		0.9756		98.7	70	130	0	0	

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 21 of 21



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Name: GHD Midland	Work Order Num	ber: 210	7B84		RcptNo:	1
Received By: Juan Rojas	7/23/2021 7:30:00	AM		Juneary	7	
Completed By: Desiree Dominguez	7/23/2021 10:21:08	3 AM		100		
Reviewed By: See 7/23/21				11-3		
Chain of Custody						
1. Is Chain of Custody complete?		Yes	1	No 🗌	Not Present	
2. How was the sample delivered?		Cou	rier			
Log In						
3. Was an attempt made to cool the samples?		Yes	~	No 🗌	NA 🗆	
4. Were all samples received at a temperature o	f >0° C to 6.0°C	Yes	V	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	<b>V</b>	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗸	NA 🗌	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any sample containers received broken	?	Yes		No 🗸	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	<b>V</b>	No 🗌	bottles checked for pH:	12 unless noted)
2. Are matrices correctly identified on Chain of C	ustody?	Yes	V	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?		Yes	<b>V</b>	No 🗌		01 -1
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	<b>V</b>	No 🗌	Checked by:	14 7/2
Special Handling (if applicable)						
15. Was client notified of all discrepancies with th	is order?	Yes		No 🗌	NA 🔽	
Person Notified:	Date		-			
By Whom:	Via:	☐ eM	ail 🔲	Phone Fa	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp °C Condition Sea	Il Intact Seal No	Seal D	ate	Signed By		

J	Shain-	-of-Cu	Chain-of-Custody Record	Turn-Around	Time:				=	4		182	2	(	2018		
Client:	GHD			X Standard	□ Rush S	Side,			5 ◀	Z	בֿיַּ	ANALYSIS	SL	3	SOR	ABORATORY	, <b>&gt;</b>
				Project Name:		,				www.	halle	www.hallenvironmental.com	nemu	tal.co	m		
Mailing	Mailing Address:	16		Jack	clesson B	# 33		4901 Hawkins NE -	lawkii	IN SI		bng	nerqu	Je, N	Albuquerque, NM 87109	o	
324 W.	. Main St.	Suite 10	324 W. Main St. Suite 108, Artesia NM 88210	Project #:				Tel. 505-345-3975	05-34	5-39	2	Fax	505	-345	Fax 505-345-4107		
Phone #:	#	(505)377-4218	7-4218		N228405	5			-		Ans	Analysis Request	, Rec	sent			17
email c	email or Fax#:	Becky.H	Becky.Haskell@ghd.com	Project Manager:	ger:			90			0:	tor		(tu	00		
QA/QC	QA/QC Package:			Becky Haskell	_		208)	_		SWI	5 0	S ԠO		əsqy	35		
□ Standard	ndard		☐ Level 4 (Full Validation)	Tom Larson						S02		1.9		/ļú	1/		
Accred	Accreditation:	□ Az Cc	☐ Az Compliance	Sampler:	Zach Comino				(1.1	728	ON	405	(		1/3		
□ NELAC	AC	□ Other		On Ice:	X Yes	□ No			b09		_	31 1	(AC		n		
□ EDE	EDD (Type)			# of Coolers:	1			_	ро			_			0		
				Cooler Temp(including CF).	(including CF): U	3-0=013			leth		_	_			Pi		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2107B84	/X=19	08:H97 9 1808	EDB (N	d sHA9	RCRA	Cl, F, F	3) 0728	Total C	9172		
SECO	SIAN CAIS	V	713-25	13		100-	2	8							9		
-	2460		TPS-30	_		700-		_									
	550		TP5-35			200 -											
	100		12-40			hoe -					_						
	100		TPS-45			500-					_						
	1145		TPS-55			900 -											
	1300		TB:60			-007						-					
	AR 1540	1340	02-29			- 008						_					
	1440		TR:75			-009						-					
	0151		TP5-80			-010					-						
	1540		TPS-85			)10-											
>	160	>	18.90	Ì		210-	۶	^							<b>-</b> >		
Date:	Time:	Relinquished by:	ned by:	Received by:	Via:		R	emark	s: Ple	ase e	mail	Cha	se S	ettle(	Deogre	Remarks: Please email: Chase_Settle@eogresources.com;	im;
COURT	000	Ciel	Course Me	Uhm		_		Natth	m.Lar ew.La	son(	ggna n@g	hd.co	Zacım: A	n.Co long	with Be	l om.Larson@gnd.com; Zacn.Comino@gnd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell	
Date:	Time:	Relinquished by:	led by:	Received by:	Via: 6	Date lime	(			Dire	B	listed to F(	isted above.	/e.	listed above.		
Wall	002.1	25	1900 William		COCNIKE	75361713	3- F									1	
	If necessary	4, samples sur	bmitted to Hall Environmental may be sub		ccredited laboratori	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	idissod si	ity. Any	sub-com	racted	data wi	De cle	arry no	lated o	The alla	Tical report.	

Client: GHD  Mailing Address:  324 W. Main St. Suite 108, Artesia NM 88210 Phone #: (505)377-4218 email or Fax#: Becky.Haskell@ghd.com QA/QC Package:  Standard Accreditation:	Project Name:    Name:	ANALYSIS LABORATOR  Www.hallenvironmental.com  W
Date: Time: Relinquished by:  Once Technology: Received by:  Date: Time: Relinquished by:  Received by:  Received by:		Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.

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Incident ID	nAPP2112353281
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	included in the plan.				
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation points</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.1</li> <li>✓ Proposed schedule for remediation (note if remediation plan times)</li> </ul>	2(C)(4) NMAC				
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr				
Signature:	Date:08/31/2021				
email: Chase_Settle@eogresources.com Telephone: 575-748-1471					
OCD Only					
Received by: Robert Hamlet Date: 1/20/2022					
☐ Approved	Approval				
Signature: Robert Hamlet	Date: 1/20/2022				

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

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

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

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

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

CONDITIONS

Action 45802

#### **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	45802
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All contaminated soil must be reclaimed/remediated and removed down to 4 feet below surface or until it meets strictest closure criteria. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 standards of 2,500 mg/kg (GRO+DRO+MRO) or 1,000 mg/kg (GRO+DRO) and chlorides to 20,000 mg/kg. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please collect confirmation samples, representing no more than 200 ft2.	1/20/2022