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	nAPP2202759509
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # *nAPP2202759509*
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.79189 Longitude -104.06366
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Robinson B Federal #1	Site Type Battery
Date Release Discovered 1/26/2022	API# *30-015-03766*

Unit Letter	Section	Township	Range	County
F	34	17S	29E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Historical impacts were discovered during the decommissioning of the battery as part of plugging process. The environmental consultant contracted to perform the remediation determined on 01/26/2022 based off the initial investigation that the volume released most likely breached the reportable threshold.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2202759509
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Chase Settle
Title: Rep Safety & Environmental Sr

Signature: Chase Settle
Date: 02/01/2022

email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

OCD Only

Received by: Ramona Marcus
Date: 2/9/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2202759509
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2202759509
District RP	
Facility ID	
Application ID	

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: Chase Settle Date: 4/20/2022

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Robert Hamlet Date: 7/27/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP202759509
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☑ Detailed description of proposed remediation technique
- ☑ Scaled sitemap with GPS coordinates showing delineation points
- ☑ Estimated volume of material to be remediated
- ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amber Griffin Title: Rep Safety & Environmental Sr

Signature: Amber Griffin Date: 8/4/2022

email: Amber_Griffin@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 09/20/2022

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

Our ref: 12574110

August 03, 2022

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

Re: Remediation Work Plan
Robinson B Federal #1 Release Site
EOG Resources Inc.
Incident ID: nAPP2202759509
F-34-17S-29E, Eddy County, New Mexico

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this 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 Robinson B Federal #1 Release Site (Site). The Site is located in Unit Letter F Section 34 of Township 17 South and Range 29 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.79189 N latitude and 104.06366 W longitude. The surface owner of the land where the release occurred is the US Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2, Site Assessment: Soil Analytical Results Map.

2. Background Information

A C-141 Release Notification for this release was submitted to the NMOCD on February 1, 2022. 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 tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number nAPP2202759509. The Release Notification, Site Assessment/Characterization, and Remediation portions of Form C-141 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).

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the site is located within 300 feet of a significant watercourse. Additionally, the Site is located within three hundred (300) feet of a wetland and is within a floodplain. No groundwater data could be located within one-half mile of the Site. No other receptors (water wells, playas, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. The Site must be treated as if groundwater is less than fifty (50) feet below ground surface. The Site characterization documentation (Karst Potential, Points of Diversion, Significant Watercourse, FEMA, 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)
300 Feet from a Significant Watercourse	Unknown, Treated as <50 feet

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

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

4. Soil Delineation Assessment Summary and Findings

From February 17, 2022, to March 24, 2022, GHD Services Inc. (GHD) and EOG's contractor Standard Safety and Supply (SS) installed twenty-three (23) test pits, TP1 through TP23, within the suspected impacted area. Soil samples were collected at depths ranging from surface to twenty (20) feet below ground surface. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

Fourteen (14) of the twenty-three (23) test pits had samples exceeding applicable Table I Closure Criteria for depth to water less than fifty (50) feet below ground surface:TP1, TP2, TP3, TP4, TP5, TP7, TP8, TP9, TP10, TP11, TP12, TP14, TP15, and TP17. 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 B.

In order to vertically delineate TPH and chloride impacts, GHD and HCI Drilling (HCI) mobilized to the Site on April 27, 2022, to install two borings. SB-1 was installed to a depth of approximately thirty-five (35) feet below

ground surface and SB-2 was installed to a depth of approximately thirty (30) feet below ground surface. Soil samples were collected at five (5) foot intervals from five (5) feet below ground surface to total depth. All 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. Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the soil borings and analytical results. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment B.

Six (6) of the thirteen (13) soil samples collected exhibited concentrations exceeding applicable Table I Closure Criteria for depth to water less than fifty (50) feet below ground surface listed below:

- TPH: SB-1 (5'), SB-1 (10'), SB-1 (15'), SB-1 (20'), and SB-2 (20')
- BTEX: SB-1 (15')
- Chloride: SB-2 (20') and SB-2 (25')

In SB-1 total BTEX and TPH concentrations were delineated to below 50 mg/kg and 100 mg/kg at fifteen (15) and twenty (20) feet below ground surface, respectively. In SB-2 total TPH and chloride concentrations were delineated to below 100 mg/kg and 600 mg/kg at twenty (20) and twenty-five (25) feet below ground surface, respectively. Soil boring logs are provided as Attachment C.

5. nAPP2115335335 Proposed Work Plan

TP1, TP2, TP3, TP4, TP5, TP7, TP8, TP9, TP10, TP11, TP12, TP14, TP15, TP17, SB-1 and SB-2 exhibited BTEX, TPH and/or chloride concentrations above Table I Closure Criteria to varying depths between surface and twenty-five (25) feet below ground surface.

GHD, on behalf of EOG, proposes to excavate soils to the following depths:

- TP8, TP9, and TP10 will be excavated to a depth of approximately two (2) feet below ground surface or until concentrations are below Table I Closure Criteria.
- TP14 will be excavated to a depth of approximately two (2) to four (4) feet below ground surface or until concentrations are below Table I Closure Criteria.
- TP7 will be excavated to a depth of approximately four (4) to six (6) feet below ground surface or until concentrations are below Table I Closure Criteria.
- TP11 will be excavated to a depth of approximately four (4) to eight (8) feet below ground surface or until concentrations are below Table I Closure Criteria.
- TP17 will be excavated to a depth of approximately eight (8) to ten (10) feet below ground surface or until concentrations are below Table I Closure Criteria.
- TP5 will be excavated to a depth of approximately eight (8) to twelve (12) feet below ground surface or until concentrations are below Table I Closure Criteria.
- TP12 and TP15 will be excavated to a depth of approximately twelve (12) to fourteen (14) feet below ground surface or until concentrations are below Table I Closure Criteria.
- TP4 will be excavated to a depth of approximately twelve (12) to sixteen (16) feet below ground surface or until concentrations are below Table I Closure Criteria.

- TP1, TP3, and SB-1 will be excavated to a depth of approximately twenty (20) to twenty-five (25) feet below ground surface or until concentrations are below Table I Closure Criteria.
- TP2 and SB-2 will be excavated to a depth of approximately twenty-six (26) feet below ground surface or until concentrations are below Table I Closure Criteria if it is reasonably safe to do so.

Composite confirmation samples will be collected from the bottom of the excavation and the sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls if any staining is observed. 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 6,700 to 8,000 cubic yards depending on the final dimensions of the excavation based on the depth and site conditions encountered. 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.

If all analytical results are below Table I Closure Criteria a closure report will be submitted to the NMOCD requesting site closure. If during excavation of TP1, TP2, TP3, SB-1 and/or SB-2 it is deemed unsafe to continue to the proposed depth of twenty (20) to twenty-six (26) feet below ground surface, further vertical excavation activities will cease. The sidewall of the deeper excavation will be excavated until concentrations are below Table I concentrations, the excavation will be backfilled, and an amended Site Remediation Work Plan will be submitted for NMOCD consideration.

If you have any questions or comments concerning this Remediation Work Plan, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD

Becky Haskell
Senior Project Manager

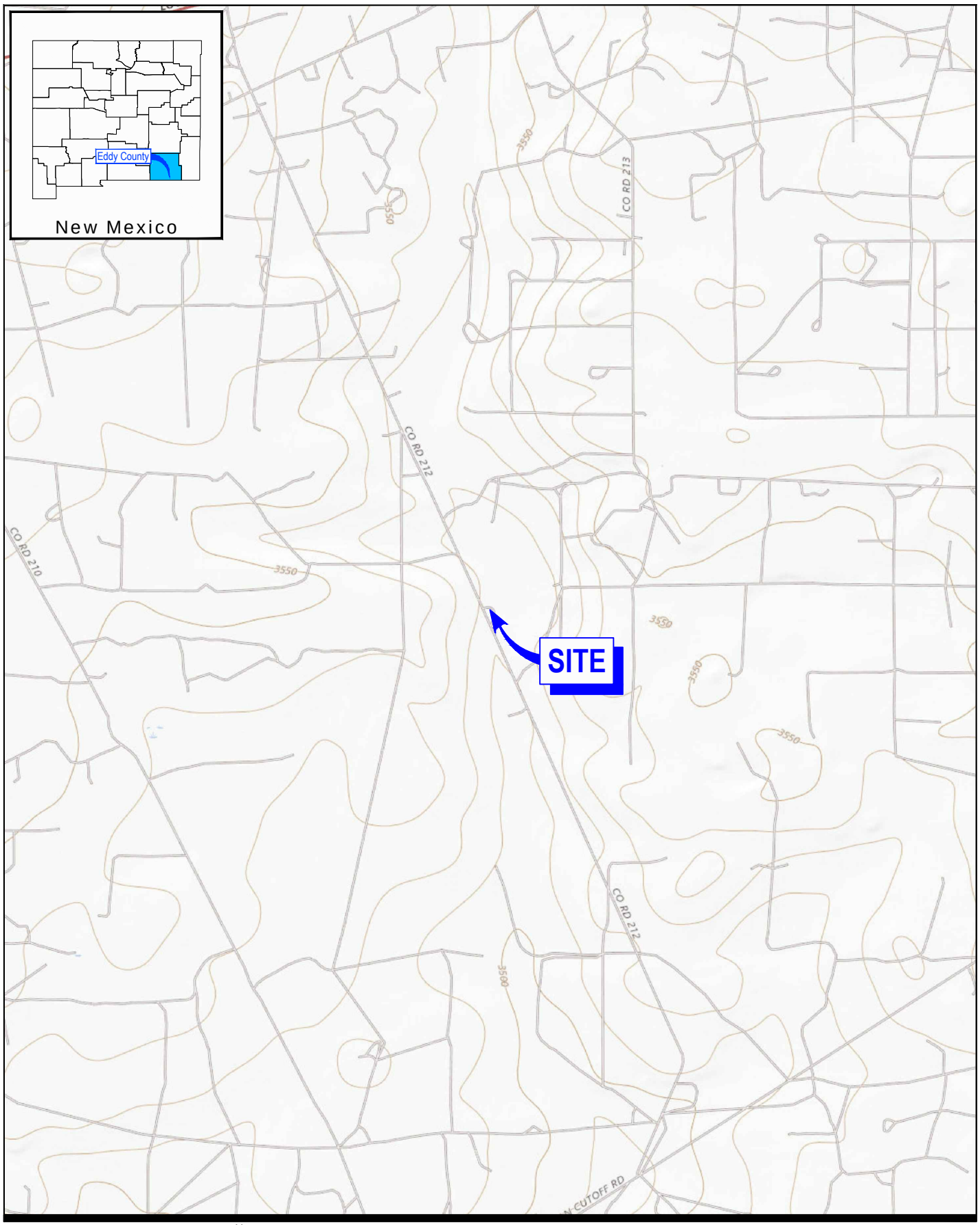
Nate Reece
Environmental Scientist

BH/NR/1

Encl. Figure 1 – Site Location Map
Figure 2 – Site Assessment: Soil Analytical Results and Proposed Excavation Map
Table 1 – Summary of Soil Analytical Data
Attachment A – Site Characterization Documentation
Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment C – Soil Boring Logs

cc: Chase Settle

Figures



0 1000 2000 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
ROBINSON B FEDERAL #1

Project No. **12574110**
Date **April 2022**

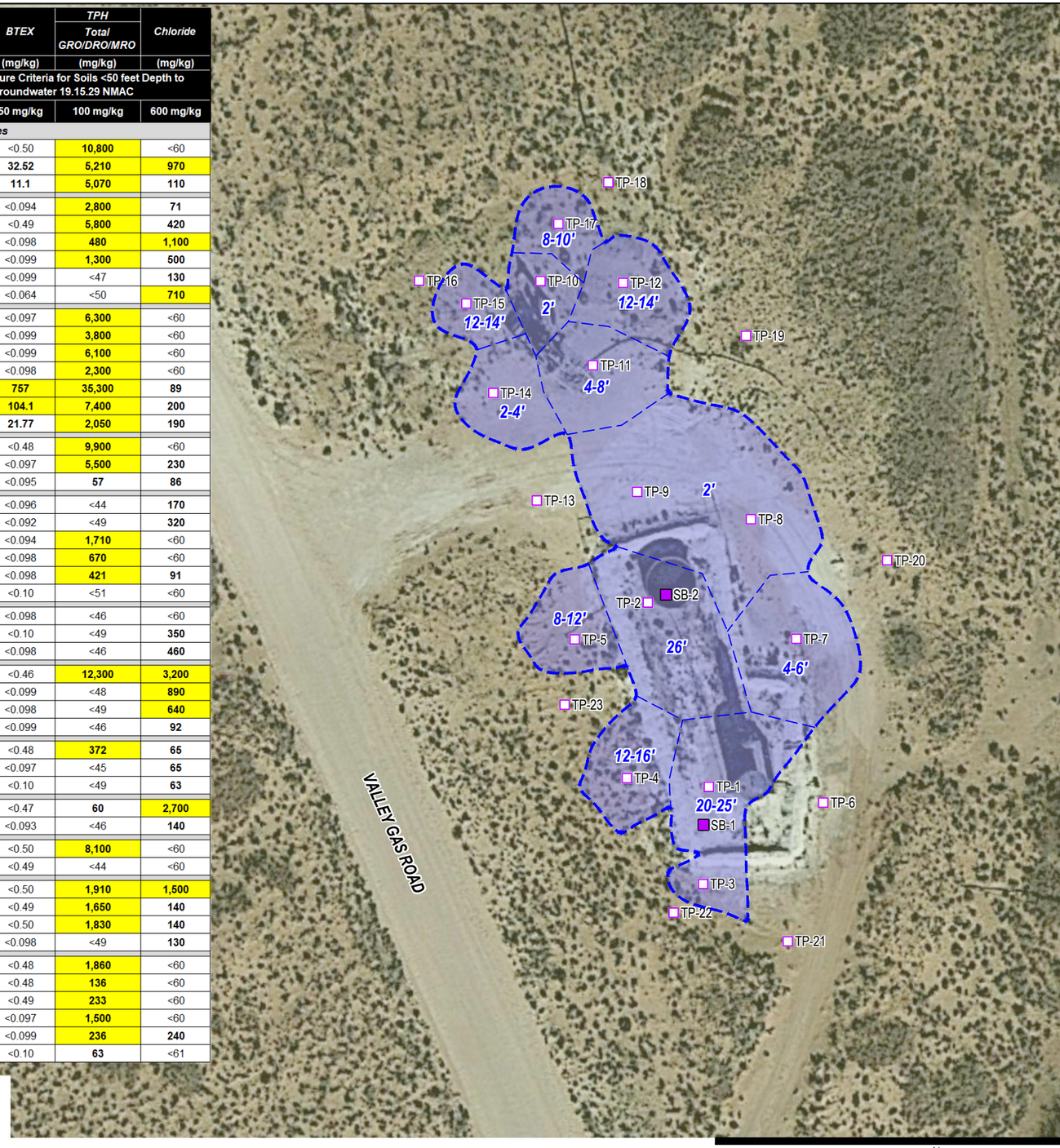
SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12574110\Digital_Design\ACAD\Figures\RPT001\12574110-GHD-0000-RPT-EN-0101-DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Red Lake SE, New Mexico"
Lat/Long: 32.791751° North, 104.063586° West

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH Total GRO/DRO/MRO (mg/kg)	Chloride (mg/kg)
		Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC	10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg
Initial Assessment Samples						
TP1-4	2/17/22	4	<0.12	<0.50	10,800	<60
TP1-12	2/17/22	12	0.52	32.52	5,210	970
TP1-19	2/17/22	19	<0.40	11.1	5,070	110
TP2-2	2/17/22	2	<0.023	<0.094	2,800	71
TP2-8	2/17/22	8	<0.12	<0.49	5,800	420
TP2-10	2/17/22	10	<0.024	<0.098	480	1,100
TP2-14	3/23/22	14	<0.025	<0.099	1,300	500
TP2-16	3/23/22	16	<0.025	<0.099	<47	130
TP2-20	3/23/22	20	<0.016	<0.064	<50	710
TP3-S	2/17/22	Surface	<0.024	<0.097	6,300	<60
TP3-2	2/17/22	2	<0.025	<0.099	3,800	<60
TP3-4	2/17/22	4	<0.025	<0.099	6,100	<60
TP3-8	3/23/22	8	<0.024	<0.098	2,300	<60
TP3-12	3/23/22	12	37	757	35,300	89
TP3-16	3/23/22	16	3.1	104.1	7,400	200
TP3-19	3/23/22	19	0.87	21.77	2,050	190
TP4-4	2/17/22	4	<0.12	<0.48	9,900	<60
TP4-12	2/17/22	12	<0.024	<0.097	5,500	230
TP4-16	2/17/22	16	<0.024	<0.095	57	86
TP5-S	2/17/22	Surface	<0.024	<0.096	<44	170
TP5-2	2/17/22	2	<0.023	<0.092	<49	320
TP5-4	2/17/22	4	<0.024	<0.094	1,710	<60
TP5-6	2/17/22	6	<0.024	<0.098	670	<60
TP5-8	3/23/22	8	<0.025	<0.098	421	91
TP5-12	3/23/22	12	<0.025	<0.10	<51	<60
TP6-2	2/17/22	2	<0.024	<0.098	<46	<60
TP6-4	2/17/22	4	<0.025	<0.10	<49	350
TP6-6	2/17/22	6	<0.024	<0.098	<46	460
TP7-S	2/18/22	Surface	<0.12	<0.46	12,300	3,200
TP7-2	2/18/22	2	<0.025	<0.099	<48	890
TP7-4	2/18/22	4	<0.025	<0.098	<49	640
TP7-6	3/23/22	6	<0.025	<0.099	<46	92
TP8-S	2/18/22	Surface	<0.12	<0.48	372	65
TP8-2	2/18/22	2	<0.024	<0.097	<45	65
TP8-4	2/18/22	4	<0.025	<0.10	<49	63
TP9-S	2/18/22	Surface	<0.12	<0.47	60	2,700
TP9-2	2/18/22	2	<0.023	<0.093	<46	140
TP10-S	2/18/22	Surface	<0.12	<0.50	8,100	<60
TP10-2	2/18/22	2	<0.12	<0.49	<44	<60
TP11-S	2/18/22	Surface	<0.12	<0.50	1,910	1,500
TP11-2	2/18/22	2	<0.12	<0.49	1,650	140
TP11-4	2/18/22	4	<0.12	<0.50	1,830	140
TP11-8	3/23/22	8	<0.024	<0.098	<49	130
TP12-S	2/18/22	Surface	<0.12	<0.48	1,860	<60
TP12-4	2/18/22	4	<0.12	<0.48	136	<60
TP12-6	2/18/22	6	<0.12	<0.49	233	<60
TP12-8	3/23/22	8	<0.024	<0.097	1,500	<60
TP12-12	3/23/22	12	<0.025	<0.099	236	240
TP12-14	3/23/22	14	<0.025	<0.10	63	<61



Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH Total GRO/DRO/MRO (mg/kg)	Chloride (mg/kg)
		Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC	10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg
Initial Assessment Samples						
TP13-S	2/21/22	Surface	<0.023	<0.093	9.7	560
TP13-2	2/21/22	2	<0.025	<0.10	<49	160
TP13-4	2/21/22	4	<0.025	<0.10	<50	140
TP14-S	2/21/22	Surface	<0.023	<0.092	<45	94
TP14-2	2/21/22	2	<0.024	<0.097	320	<60
TP14-4	2/21/22	4	<0.024	<0.095	<46	69
TP15-S	2/21/22	Surface	<0.12	<0.50	1,250	<60
TP15-4	2/21/22	4	<0.12	<0.48	3,900	<60
TP15-8	2/21/22	8	<0.12	<0.48	3,030	<60
TP15-12	2/21/22	12	<0.025	<0.10	306	97
TP15-14	3/23/22	14	<0.024	<0.095	76	150
TP16-S	3/23/22	Surface	<0.025	<0.099	<48	<61
TP16-2	3/23/22	2	<0.025	<0.10	<49	<60
TP17-2	3/23/22	2	<0.025	<0.099	1,880	<60
TP17-4	3/23/22	4	<0.025	<0.10	6,200	<60
TP17-8	3/23/22	8	<0.025	<0.098	1,110	<60
TP17-10	3/23/22	10	<0.024	<0.096	<50	<61
TP18-S	3/23/22	Surface	<0.025	<0.099	90	<60
TP18-2	3/23/22	2	<0.024	<0.097	<50	<60
TP19-S	3/24/22	Surface	<0.024	<0.097	<49	<60
TP19-2	3/24/22	2	<0.024	<0.095	<47	<60
TP20-S	3/24/22	Surface	<0.024	<0.097	<48	<60
TP20-2	3/24/22	2	<0.024	<0.096	<49	<60
TP21-S	3/24/22	Surface	<0.023	<0.094	<50	<60
TP21-2	3/24/22	2	<0.024	<0.098	<47	<59
TP22-S	3/24/22	Surface	<0.025	<0.099	<48	<60
TP22-2	3/24/22	2	<0.024	<0.097	<49	<60
TP23-S	3/24/22	Surface	<0.025	<0.098	<47	<60
TP23-2	3/24/22	2	<0.023	<0.093	<47	<60
Soil Borings						
SB-1 (5')	4/27/22	5	1.4	26.9	4,260	<60
SB-1 (10')	4/27/22	10	<0.12	6.6	1,810	<61
SB-1 (15')	4/27/22	15	16	222	11,100	67
SB-1 (20')	4/27/22	20	<0.12	6.72	3,810	140
SB-1 (25')	4/27/22	25	<0.12	<0.49	<49	230
SB-1 (30')	4/27/22	30	<0.024	<0.096	<50	150
SB-1 (35')	4/27/22	35	<0.024	<0.096	<47	<60
SB-2 (5')	4/27/22	5	<0.024	<0.095	<48	130
SB-2 (10')	4/27/22	10	<0.025	<0.099	<47	280
SB-2 (15')	4/27/22	15	<0.024	<0.096	<50	170
SB-2 (20')	4/27/22	20	<0.12	<0.47	410	3,000
SB-2 (25')	4/27/22	25	<0.024	<0.096	15	1,700
SB-2 (30')	4/27/22	30	<0.024	<0.096	<50	<61

LEGEND

- PROPOSED EXCAVATION AREA/DEPTH
- TEST PIT LOCATION
- PROPOSED SOIL BORING LOCATION
- DEPTH — DEPTH OF SAMPLE (FT)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)
- TPH — TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)

NOTES:

1. RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.

0 20 40 ft

Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet)

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
ROBINSON B FEDERAL #1

SITE ASSESSMENT: SOIL ANALYTICAL RESULTS MAP

Project No. **12574110**
Date **August 2022**

FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12574110\Digital_Design\ACAD\Figures\RPT001\12574110-GHD-0000-RPT-EN-0101-DL-001.dwg
Plot Date: 02 August 2022 4:51 PM

Data Source: Image © 2021 Google - Imagery Date: December 21, 2019
Lat/Long: 32.791751° North, 104.063586° West

Tables

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

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	---			100 mg/kg	600 mg/kg
Initial Assessment Samples												
TP1-4	2/17/22	4	<0.12	<0.25	<0.25	<0.50	<0.50	<25	5,700	5,100	10,800	<60
TP1-12	2/17/22	12	0.52	<1.0	17	15.0	32.52	410	3,400	1,400	5,210	970
TP1-19	2/17/22	19	<0.40	<0.40	6.1	5.0	11.1	170	1,800	3,100	5,070	110
TP2-2	2/17/22	2	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	1,300	1,500	2,800	71
TP2-8	2/17/22	8	<0.12	<0.24	<0.24	<0.49	<0.49	<24	3,000	2,800	5,800	420
TP2-10	2/17/22	10	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	160	320	480	1,100
TP2-14	3/23/22	14	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	610	690	1,300	500
TP2-16	3/23/22	16	<0.025	<0.049	<0.049	<0.099	<0.099	<5.0	<9.3	<47	<47	130
TP2-20	3/23/22	20	<0.016	<0.032	<0.032	<0.064	<0.064	<3.2	<10	<50	<50	710
TP3-S	2/17/22	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	2,200	4,100	6,300	<60
TP3-2	2/17/22	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	1,500	2,300	3,800	<60
TP3-4	2/17/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	2,000	4,100	6,100	<60
TP3-8	3/23/22	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	1,000	1,300	2,300	<60
TP3-12	3/23/22	12	37	240	220	260	757	5,300	26,000	9,300	35,300	89
TP3-16	3/23/22	16	3.1	18	37	46	104.1	1,100	5,400	2,000	7,400	200
TP3-19	3/23/22	19	0.87	3.6	7.9	9.4	21.77	270	1,200	580	2,050	190
TP4-4	2/17/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	4,800	5,100	9,900	<60
TP4-12	2/17/22	12	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	2,100	3,400	5,500	230
TP4-16	2/17/22	16	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	9.2	48	57	86
TP5-S	2/17/22	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.9	<44	<44	170
TP5-2	2/17/22	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.8	<49	<49	320
TP5-4	2/17/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	610	1,100	1,710	<60
TP5-6	2/17/22	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	140	530	670	<60
TP5-8	3/23/22	8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	91	330	421	91
TP5-12	3/23/22	12	<0.025	<0.50	<0.50	<0.10	<0.10	<5.0	<10	<51	<51	<60
TP6-2	2/17/22	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	<60
TP6-4	2/17/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	350
TP6-6	2/17/22	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<46	460

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

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	---			100 mg/kg	600 mg/kg
TP7-S	2/18/22	Surface	<0.12	<0.23	<0.23	<0.46	<0.46	<0.23	**6,700**	**5,600**	**12,300**	**3,200**
TP7-2	2/18/22	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	**890**
TP7-4	2/18/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<49	<49	**640**
TP7-6	3/23/22	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.2	<46	<46	**92**
TP8-S	2/18/22	Surface	<0.12	<0.24	<0.24	<0.48	<0.48	<24	**62**	**310**	**372**	**65**
TP8-2	2/18/22	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<8.9	<45	<45	**65**
TP8-4	2/18/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	**63**
TP9-S	2/18/22	Surface	<0.12	<0.24	<0.24	<0.47	<0.47	<24	**12**	**48**	**60**	**2,700**
TP9-2	2/18/22	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.3	<46	<46	**140**
TP10-S	2/18/22	Surface	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**3,500**	**4,600**	**8,100**	<60
TP10-2	2/18/22	2	<0.12	<0.25	<0.25	<0.49	<0.49	<25	<8.9	<44	<44	<60
TP11-S	2/18/22	Surface	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**510**	**1,400**	**1,910**	**1,500**
TP11-2	2/18/22	2	<0.12	<0.24	<0.24	<0.49	<0.49	<24	**550**	**1,100**	**1,650**	**140**
TP11-4	2/18/22	4	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**840**	**990**	**1,830**	**140**
TP11-8	3/23/22	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	**130**
TP12-S	2/18/22	Surface	<0.12	<0.24	<0.24	<0.48	<0.48	<24	**460**	**1,400**	**1,860**	<60
TP12-4	2/18/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	**65**	**71**	**136**	<60
TP12-6	2/18/22	6	<0.12	<0.25	<0.25	<0.49	<0.49	<25	**73**	**160**	**233**	<60
TP12-8	3/23/22	8	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	**520**	**980**	**1,500**	<60
TP12-12	3/23/22	12	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	**46**	**190**	**236**	**240**
TP12-14	3/23/22	14	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**11**	**52**	**63**	<61
TP13-S	2/21/22	Surface	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	**9.7**	<42	**9.7**	**560**
TP13-2	2/21/22	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	**160**
TP13-4	2/21/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<50	**140**
TP14-S	2/21/22	Surface	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.1	<45	<45	**94**
TP14-2	2/21/22	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	**70**	**250**	**320**	<60
TP14-4	2/21/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.2	<46	<46	**69**
TP15-S	2/21/22	Surface	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**250**	**1,000**	**1,250**	<60
TP15-4	2/21/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	**1,100**	**2,800**	**3,900**	<60
TP15-8	2/21/22	8	<0.12	<0.24	<0.24	<0.48	<0.48	<24	**630**	**2,400**	**3,030**	<60
TP15-12	2/21/22	12	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**66**	**240**	**306**	**97**

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

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	---			100 mg/kg	600 mg/kg
TP15-14	3/23/22	14	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.7	**76**	**76**	**150**
TP16-S	3/23/22	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<48	<48	<61
TP16-2	3/23/22	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	<60
TP17-2	3/23/22	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	**680**	**1,200**	**1,880**	<60
TP17-4	3/23/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**2,400**	**3,800**	**6,200**	<60
TP17-8	3/23/22	8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	**310**	**800**	**1,110**	<60
TP17-10	3/23/22	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	<61
TP18-S	3/23/22	Surface	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	**90**	**90**	<60
TP18-2	3/23/22	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<50	<50	<60
TP19-S	3/24/22	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<49	<49	<60
TP19-2	3/24/22	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	<60
TP20-S	3/24/22	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	<60
TP20-2	3/24/22	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<49	<49	<60
TP21-S	3/24/22	Surface	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<10	<50	<50	<60
TP21-2	3/24/22	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	<59
TP22-S	3/24/22	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	<60
TP22-2	3/24/22	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60
TP23-S	3/24/22	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	<60
TP23-2	3/24/22	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.5	<47	<47	<60
Soil Borings												
SB-1 (5')	4/27/22	5	**1.4**	<0.50	**16**	**9.5**	**26.9**	**660**	**2,300**	**1,300**	**4,260**	<60
SB-1 (10')	4/27/22	10	<0.12	<0.23	**3.1**	**3.5**	**6.6**	**120**	**1,000**	**690**	**1,810**	<61
SB-1 (15')	4/27/22	15	**16**	**61**	**66**	**79**	**222**	**2,200**	**6,500**	**2,400**	**11,100**	**67**
SB-1 (20')	4/27/22	20	<0.12	**0.52**	**2.7**	**3.5**	**6.72**	**110**	**2,600**	**1,100**	**3,810**	**140**
SB-1 (25')	4/27/22	25	<0.12	<0.25	<0.25	<0.49	<0.49	<35	<9.8	<49	<49	**230**
SB-1 (30')	4/27/22	30	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<50	**150**
SB-1 (35')	4/27/22	35	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	<60
SB-2 (5')	4/27/22	5	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<48	<48	**130**
SB-2 (10')	4/27/22	10	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	**280**
SB-2 (15')	4/27/22	15	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	**170**
SB-2 (20')	4/27/22	20	<0.12	<0.23	<0.23	<0.47	<0.47	<23	**210**	**200**	**410**	**3,000**

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

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	---			100 mg/kg	600 mg/kg
SB-2 (25')	4/27/22	25	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	**15**	<49	**15**	**1,700**
SB-2 (30')	4/27/22	30	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	<61

Notes:
1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4 BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oi
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

~~B-BH-2~~ Sample Point Excavated

Attachment A
Site Characterization Documentation

Robinson B Federal #1

Karst Potential Map

OSE POD Locations Map

3/1/2022, 11:39:00 AM

Override 1

OSE District Boundary

New Mexico State Trust Lands

Subsurface Estate

Both Estates

SiteBoundaries

1:18,056

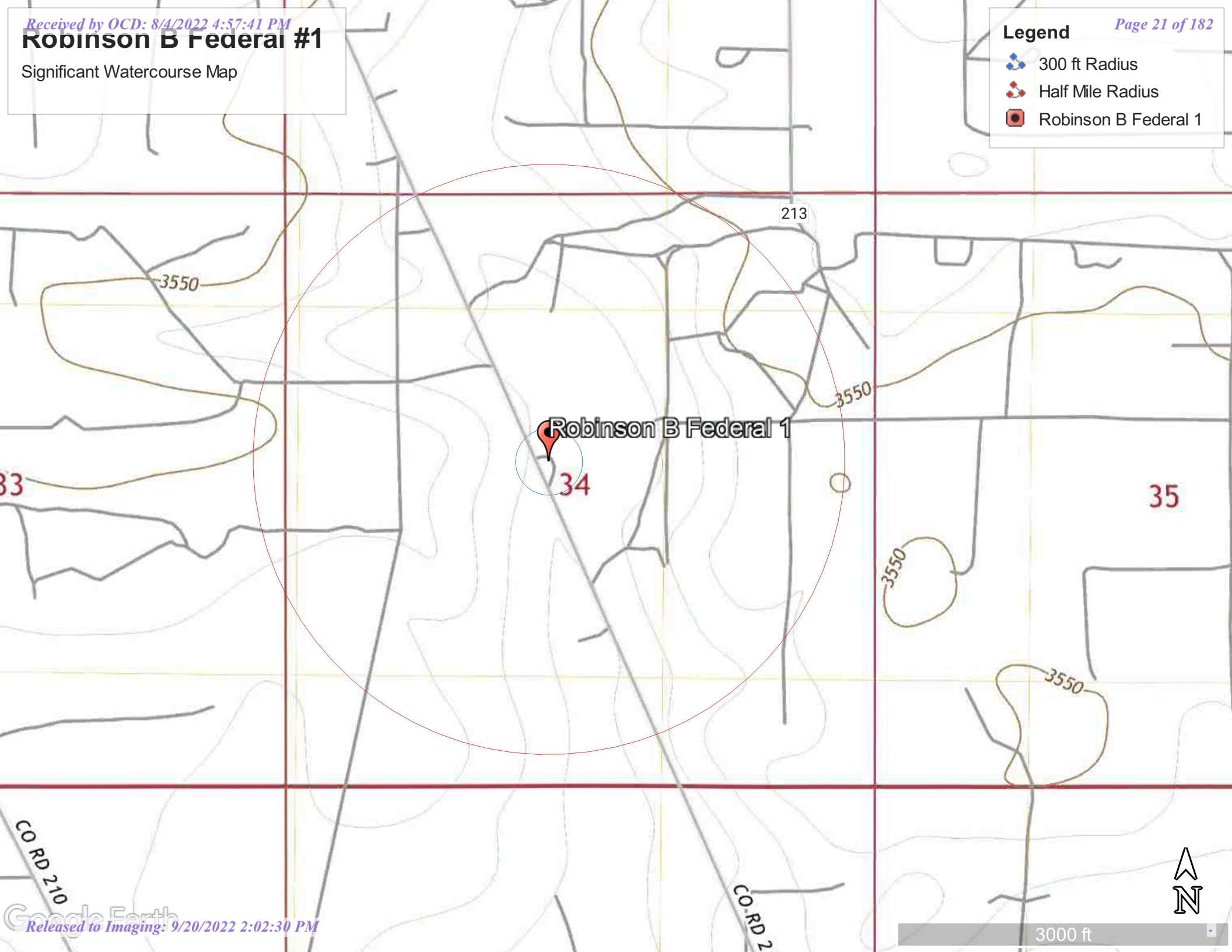
0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

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

Robinson B Federal #1

Significant Watercourse Map



U.S. Fish and Wildlife Service

National Wetlands Inventory

Robinson B Federal #1

March 2, 2022

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

National Flood Hazard Layer FIRMette

FEMA

104°4'8"W 32°47'45"N

104°3'30"W 32°47'15"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 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*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 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
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/1/2022 at 12:27 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.

Attachment B
Laboratory Analytical Reports and Chain-of-Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 08, 2022

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

RE: Robinson B Federal 1 OrderNo.: 2202A39

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 19 sample(s) on 2/23/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP1-4
Project: Robinson B Federal 1
Collection Date: 2/17/2022 9:35:00 AM
Lab ID: 2202A39-001 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/1/2022 2:15:22 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	5700	450		mg/Kg	50	2/25/2022 12:15:43 AM	65766
Motor Oil Range Organics (MRO)	5100	2300		mg/Kg	50	2/25/2022 12:15:43 AM	65766
Surr: DNOP	0	51.1-141	S	%Rec	50	2/25/2022 12:15:43 AM	65766
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/24/2022 6:30:00 PM	65760
Surr: BFB	109	70-130		%Rec	5	2/24/2022 6:30:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.12		mg/Kg	5	2/24/2022 6:30:00 PM	65760
Toluene	ND	0.25		mg/Kg	5	2/24/2022 6:30:00 PM	65760
Ethylbenzene	ND	0.25		mg/Kg	5	2/24/2022 6:30:00 PM	65760
Xylenes, Total	ND	0.50		mg/Kg	5	2/24/2022 6:30:00 PM	65760
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	5	2/24/2022 6:30:00 PM	65760

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP1-12
Project: Robinson B Federal 1
Collection Date: 2/17/2022 9:45:00 AM
Lab ID: 2202A39-002 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	970	60		mg/Kg	20	3/1/2022 2:52:37 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	3400	170		mg/Kg	20	2/28/2022 5:08:46 PM	65766
Motor Oil Range Organics (MRO)	1400	870		mg/Kg	20	2/28/2022 5:08:46 PM	65766
Surr: DNOP	0	51.1-141	S	%Rec	20	2/28/2022 5:08:46 PM	65766
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	410	100		mg/Kg	20	2/24/2022 6:50:00 PM	65760
Surr: BFB	220	70-130	S	%Rec	20	2/24/2022 6:50:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	0.52	0.50		mg/Kg	20	2/24/2022 6:50:00 PM	65760
Toluene	ND	1.0		mg/Kg	20	2/24/2022 6:50:00 PM	65760
Ethylbenzene	17	1.0		mg/Kg	20	2/24/2022 6:50:00 PM	65760
Xylenes, Total	15	2.0		mg/Kg	20	2/24/2022 6:50:00 PM	65760
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	20	2/24/2022 6:50:00 PM	65760

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP1-19
Project: Robinson B Federal 1
Collection Date: 2/17/2022 9:55:00 AM
Lab ID: 2202A39-003 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	110	60		mg/Kg	20	3/1/2022 3:05:01 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1800	460		mg/Kg	50	2/25/2022 12:37:00 AM	65766
Motor Oil Range Organics (MRO)	3100	2300		mg/Kg	50	2/25/2022 12:37:00 AM	65766
Surr: DNOP	0	51.1-141	S	%Rec	50	2/25/2022 12:37:00 AM	65766
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	170	99		mg/Kg	20	2/24/2022 7:10:00 PM	65760
Surr: BFB	166	70-130	S	%Rec	20	2/24/2022 7:10:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.40	D	mg/Kg	20	2/24/2022 7:10:00 PM	65760
Toluene	ND	0.40	D	mg/Kg	20	2/24/2022 7:10:00 PM	65760
Ethylbenzene	6.1	0.99	D	mg/Kg	20	2/24/2022 7:10:00 PM	65760
Xylenes, Total	5.0	2.0	D	mg/Kg	20	2/24/2022 7:10:00 PM	65760
Surr: 4-Bromofluorobenzene	103	70-130	D	%Rec	20	2/24/2022 7:10:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-2
Project: Robinson B Federal 1
Collection Date: 2/17/2022 10:45:00 AM
Lab ID: 2202A39-004 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	71	60		mg/Kg	20	3/1/2022 3:42:15 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1300	170		mg/Kg	20	2/25/2022 12:47:39 AM	65766
Motor Oil Range Organics (MRO)	1500	840		mg/Kg	20	2/25/2022 12:47:39 AM	65766
Surr: DNOP	0	51.1-141	S	%Rec	20	2/25/2022 12:47:39 AM	65766
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/24/2022 8:29:00 PM	65760
Surr: BFB	100	70-130		%Rec	1	2/24/2022 8:29:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	2/24/2022 8:29:00 PM	65760
Toluene	ND	0.047		mg/Kg	1	2/24/2022 8:29:00 PM	65760
Ethylbenzene	ND	0.047		mg/Kg	1	2/24/2022 8:29:00 PM	65760
Xylenes, Total	ND	0.094		mg/Kg	1	2/24/2022 8:29:00 PM	65760
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	2/24/2022 8:29:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-8
Project: Robinson B Federal 1
Collection Date: 2/17/2022 10:50:00 AM
Lab ID: 2202A39-005 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	420	60		mg/Kg	20	3/1/2022 3:54:39 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	3000	190		mg/Kg	20	2/25/2022 12:58:20 AM	65766
Motor Oil Range Organics (MRO)	2800	940		mg/Kg	20	2/25/2022 12:58:20 AM	65766
Surr: DNOP	0	51.1-141	S	%Rec	20	2/25/2022 12:58:20 AM	65766
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/24/2022 8:48:00 PM	65760
Surr: BFB	103	70-130		%Rec	5	2/24/2022 8:48:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.12		mg/Kg	5	2/24/2022 8:48:00 PM	65760
Toluene	ND	0.24		mg/Kg	5	2/24/2022 8:48:00 PM	65760
Ethylbenzene	ND	0.24		mg/Kg	5	2/24/2022 8:48:00 PM	65760
Xylenes, Total	ND	0.49		mg/Kg	5	2/24/2022 8:48:00 PM	65760
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	5	2/24/2022 8:48:00 PM	65760

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-10
Project: Robinson B Federal 1
Collection Date: 2/17/2022 10:55:00 AM
Lab ID: 2202A39-006 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1100	60		mg/Kg	20	3/1/2022 4:07:04 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	170	49		mg/Kg	5	3/1/2022 9:18:25 PM	65766
Motor Oil Range Organics (MRO)	320	240		mg/Kg	5	3/1/2022 9:18:25 PM	65766
Surr: DNOP	79.8	51.1-141		%Rec	5	3/1/2022 9:18:25 PM	65766
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2022 9:08:00 PM	65760
Surr: BFB	98.2	70-130		%Rec	1	2/24/2022 9:08:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 9:08:00 PM	65760
Toluene	ND	0.049		mg/Kg	1	2/24/2022 9:08:00 PM	65760
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2022 9:08:00 PM	65760
Xylenes, Total	ND	0.098		mg/Kg	1	2/24/2022 9:08:00 PM	65760
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	2/24/2022 9:08:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-S
Project: Robinson B Federal 1
Collection Date: 2/17/2022 12:30:00 PM
Lab ID: 2202A39-007 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/1/2022 4:19:29 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	2200	440		mg/Kg	50	3/1/2022 9:50:26 PM	65777
Motor Oil Range Organics (MRO)	4100	2200		mg/Kg	50	3/1/2022 9:50:26 PM	65777
Surr: DNOP	0	51.1-141	S	%Rec	50	3/1/2022 9:50:26 PM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/24/2022 9:28:00 PM	65760
Surr: BFB	104	70-130		%Rec	1	2/24/2022 9:28:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 9:28:00 PM	65760
Toluene	ND	0.048		mg/Kg	1	2/24/2022 9:28:00 PM	65760
Ethylbenzene	ND	0.048		mg/Kg	1	2/24/2022 9:28:00 PM	65760
Xylenes, Total	ND	0.097		mg/Kg	1	2/24/2022 9:28:00 PM	65760
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	2/24/2022 9:28:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-2
Project: Robinson B Federal 1
Collection Date: 2/17/2022 12:35:00 PM
Lab ID: 2202A39-008 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/1/2022 4:31:54 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1500	190		mg/Kg	20	3/2/2022 12:22:49 PM	65777
Motor Oil Range Organics (MRO)	2300	940		mg/Kg	20	3/2/2022 12:22:49 PM	65777
Surr: DNOP	0	51.1-141	S	%Rec	20	3/2/2022 12:22:49 PM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2022 9:47:00 PM	65760
Surr: BFB	100	70-130		%Rec	1	2/24/2022 9:47:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	2/24/2022 9:47:00 PM	65760
Toluene	ND	0.049		mg/Kg	1	2/24/2022 9:47:00 PM	65760
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2022 9:47:00 PM	65760
Xylenes, Total	ND	0.099		mg/Kg	1	2/24/2022 9:47:00 PM	65760
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	2/24/2022 9:47:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-4
Project: Robinson B Federal 1
Collection Date: 2/17/2022 12:40:00 PM
Lab ID: 2202A39-009 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/1/2022 4:44:19 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	2000	480		mg/Kg	50	3/1/2022 10:43:35 PM	65777
Motor Oil Range Organics (MRO)	4100	2400		mg/Kg	50	3/1/2022 10:43:35 PM	65777
Surr: DNOP	0	51.1-141	S	%Rec	50	3/1/2022 10:43:35 PM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2022 10:07:00 PM	65760
Surr: BFB	103	70-130		%Rec	1	2/24/2022 10:07:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	2/24/2022 10:07:00 PM	65760
Toluene	ND	0.049		mg/Kg	1	2/24/2022 10:07:00 PM	65760
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2022 10:07:00 PM	65760
Xylenes, Total	ND	0.099		mg/Kg	1	2/24/2022 10:07:00 PM	65760
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	2/24/2022 10:07:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP4-4
Project: Robinson B Federal 1
Collection Date: 2/17/2022 1:20:00 PM
Lab ID: 2202A39-010 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/1/2022 4:56:43 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	4800	480		mg/Kg	50	2/26/2022 3:30:52 AM	65777
Motor Oil Range Organics (MRO)	5100	2400		mg/Kg	50	2/26/2022 3:30:52 AM	65777
Surr: DNOP	0	51.1-141	S	%Rec	50	2/26/2022 3:30:52 AM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/24/2022 10:27:00 PM	65760
Surr: BFB	102	70-130		%Rec	5	2/24/2022 10:27:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.12		mg/Kg	5	2/24/2022 10:27:00 PM	65760
Toluene	ND	0.24		mg/Kg	5	2/24/2022 10:27:00 PM	65760
Ethylbenzene	ND	0.24		mg/Kg	5	2/24/2022 10:27:00 PM	65760
Xylenes, Total	ND	0.48		mg/Kg	5	2/24/2022 10:27:00 PM	65760
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	5	2/24/2022 10:27:00 PM	65760

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP4-12
Project: Robinson B Federal 1
Collection Date: 2/17/2022 1:25:00 PM
Lab ID: 2202A39-011 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	230	59		mg/Kg	20	3/1/2022 5:09:07 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	2100	470		mg/Kg	50	3/1/2022 11:04:48 PM	65777
Motor Oil Range Organics (MRO)	3400	2300		mg/Kg	50	3/1/2022 11:04:48 PM	65777
Surr: DNOP	0	51.1-141	S	%Rec	50	3/1/2022 11:04:48 PM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/24/2022 10:46:00 PM	65760
Surr: BFB	103	70-130		%Rec	1	2/24/2022 10:46:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 10:46:00 PM	65760
Toluene	ND	0.048		mg/Kg	1	2/24/2022 10:46:00 PM	65760
Ethylbenzene	ND	0.048		mg/Kg	1	2/24/2022 10:46:00 PM	65760
Xylenes, Total	ND	0.097		mg/Kg	1	2/24/2022 10:46:00 PM	65760
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	2/24/2022 10:46:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP4-16
Project: Robinson B Federal 1 **Collection Date:** 2/17/2022 1:30:00 PM
Lab ID: 2202A39-012 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	86	60		mg/Kg	20	3/1/2022 5:21:32 PM	65853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	9.2	7.7		mg/Kg	1	2/28/2022 6:05:11 PM	65777
Motor Oil Range Organics (MRO)	48	39		mg/Kg	1	2/28/2022 6:05:11 PM	65777
Surr: DNOP	117	51.1-141		%Rec	1	2/28/2022 6:05:11 PM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/24/2022 11:06:00 PM	65760
Surr: BFB	109	70-130		%Rec	1	2/24/2022 11:06:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 11:06:00 PM	65760
Toluene	ND	0.047		mg/Kg	1	2/24/2022 11:06:00 PM	65760
Ethylbenzene	ND	0.047		mg/Kg	1	2/24/2022 11:06:00 PM	65760
Xylenes, Total	ND	0.095		mg/Kg	1	2/24/2022 11:06:00 PM	65760
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	2/24/2022 11:06:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-S
Project: Robinson B Federal 1
Collection Date: 2/17/2022 2:00:00 PM
Lab ID: 2202A39-013 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	170	60		mg/Kg	20	3/1/2022 7:54:17 PM	65877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/26/2022 4:12:25 AM	65777
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/26/2022 4:12:25 AM	65777
Surr: DNOP	151	51.1-141	S	%Rec	1	2/26/2022 4:12:25 AM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/24/2022 11:25:00 PM	65760
Surr: BFB	102	70-130		%Rec	1	2/24/2022 11:25:00 PM	65760
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 11:25:00 PM	65760
Toluene	ND	0.048		mg/Kg	1	2/24/2022 11:25:00 PM	65760
Ethylbenzene	ND	0.048		mg/Kg	1	2/24/2022 11:25:00 PM	65760
Xylenes, Total	ND	0.096		mg/Kg	1	2/24/2022 11:25:00 PM	65760
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	2/24/2022 11:25:00 PM	65760

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-2
Project: Robinson B Federal 1
Collection Date: 2/17/2022 2:05:00 PM
Lab ID: 2202A39-014 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	320	60		mg/Kg	20	3/1/2022 8:06:41 PM	65877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/28/2022 6:35:12 PM	65777
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/28/2022 6:35:12 PM	65777
Surr: DNOP	89.7	51.1-141		%Rec	1	2/28/2022 6:35:12 PM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/24/2022 9:07:12 PM	65765
Surr: BFB	107	70-130		%Rec	1	2/24/2022 9:07:12 PM	65765
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	2/24/2022 9:07:12 PM	65765
Toluene	ND	0.046		mg/Kg	1	2/24/2022 9:07:12 PM	65765
Ethylbenzene	ND	0.046		mg/Kg	1	2/24/2022 9:07:12 PM	65765
Xylenes, Total	ND	0.092		mg/Kg	1	2/24/2022 9:07:12 PM	65765
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/24/2022 9:07:12 PM	65765

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-4
Project: Robinson B Federal 1
Collection Date: 2/17/2022 2:10:00 PM
Lab ID: 2202A39-015 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/1/2022 8:19:05 PM	65877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	610	85		mg/Kg	10	2/26/2022 4:33:16 AM	65777
Motor Oil Range Organics (MRO)	1100	420		mg/Kg	10	2/26/2022 4:33:16 AM	65777
Surr: DNOP	0	51.1-141	S	%Rec	10	2/26/2022 4:33:16 AM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/24/2022 10:17:19 PM	65765
Surr: BFB	107	70-130		%Rec	1	2/24/2022 10:17:19 PM	65765
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 10:17:19 PM	65765
Toluene	ND	0.047		mg/Kg	1	2/24/2022 10:17:19 PM	65765
Ethylbenzene	ND	0.047		mg/Kg	1	2/24/2022 10:17:19 PM	65765
Xylenes, Total	ND	0.094		mg/Kg	1	2/24/2022 10:17:19 PM	65765
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/24/2022 10:17:19 PM	65765

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-6
Project: Robinson B Federal 1
Collection Date: 2/17/2022 2:15:00 PM
Lab ID: 2202A39-016 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/1/2022 8:31:29 PM	65877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	140	94		mg/Kg	10	2/28/2022 7:04:55 PM	65777
Motor Oil Range Organics (MRO)	530	470		mg/Kg	10	2/28/2022 7:04:55 PM	65777
Surr: DNOP	0	51.1-141	S	%Rec	10	2/28/2022 7:04:55 PM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2022 11:27:39 PM	65765
Surr: BFB	102	70-130		%Rec	1	2/24/2022 11:27:39 PM	65765
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 11:27:39 PM	65765
Toluene	ND	0.049		mg/Kg	1	2/24/2022 11:27:39 PM	65765
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2022 11:27:39 PM	65765
Xylenes, Total	ND	0.098		mg/Kg	1	2/24/2022 11:27:39 PM	65765
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	2/24/2022 11:27:39 PM	65765

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP6-2
Project: Robinson B Federal 1
Collection Date: 2/17/2022 2:50:00 PM
Lab ID: 2202A39-017 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/1/2022 8:43:54 PM	65877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/26/2022 5:04:33 AM	65777
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/26/2022 5:04:33 AM	65777
Surr: DNOP	109	51.1-141		%Rec	1	2/26/2022 5:04:33 AM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2022 11:50:59 PM	65765
Surr: BFB	105	70-130		%Rec	1	2/24/2022 11:50:59 PM	65765
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 11:50:59 PM	65765
Toluene	ND	0.049		mg/Kg	1	2/24/2022 11:50:59 PM	65765
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2022 11:50:59 PM	65765
Xylenes, Total	ND	0.098		mg/Kg	1	2/24/2022 11:50:59 PM	65765
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/24/2022 11:50:59 PM	65765

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP6-4
Project: Robinson B Federal 1
Collection Date: 2/17/2022 2:55:00 PM
Lab ID: 2202A39-018 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	60		mg/Kg	20	3/1/2022 8:56:18 PM	65877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/26/2022 5:15:03 AM	65777
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/26/2022 5:15:03 AM	65777
Surr: DNOP	108	51.1-141		%Rec	1	2/26/2022 5:15:03 AM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2022 12:14:35 AM	65765
Surr: BFB	101	70-130		%Rec	1	2/25/2022 12:14:35 AM	65765
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/25/2022 12:14:35 AM	65765
Toluene	ND	0.050		mg/Kg	1	2/25/2022 12:14:35 AM	65765
Ethylbenzene	ND	0.050		mg/Kg	1	2/25/2022 12:14:35 AM	65765
Xylenes, Total	ND	0.10		mg/Kg	1	2/25/2022 12:14:35 AM	65765
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	2/25/2022 12:14:35 AM	65765

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

Qualifiers:

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

Analytical Report
Lab Order **2202A39**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP6-6
Project: Robinson B Federal 1
Collection Date: 2/17/2022 3:00:00 PM
Lab ID: 2202A39-019 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	460	61		mg/Kg	20	3/1/2022 9:08:43 PM	65877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/26/2022 5:25:32 AM	65777
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/26/2022 5:25:32 AM	65777
Surr: DNOP	117	51.1-141		%Rec	1	2/26/2022 5:25:32 AM	65777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2022 12:37:51 AM	65765
Surr: BFB	105	70-130		%Rec	1	2/25/2022 12:37:51 AM	65765
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/25/2022 12:37:51 AM	65765
Toluene	ND	0.049		mg/Kg	1	2/25/2022 12:37:51 AM	65765
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2022 12:37:51 AM	65765
Xylenes, Total	ND	0.098		mg/Kg	1	2/25/2022 12:37:51 AM	65765
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	2/25/2022 12:37:51 AM	65765

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A39**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **MB-65877**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **65877**	RunNo: **86175**							
Prep Date: **3/1/2022**	Analysis Date: **3/1/2022**	SeqNo: **3037341**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65877**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **65877**	RunNo: **86175**							
Prep Date: **3/1/2022**	Analysis Date: **3/1/2022**	SeqNo: **3037343**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Sample ID: **MB-65853**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **65853**	RunNo: **86158**							
Prep Date: **3/1/2022**	Analysis Date: **3/1/2022**	SeqNo: **3037748**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65853**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **65853**	RunNo: **86158**							
Prep Date: **3/1/2022**	Analysis Date: **3/1/2022**	SeqNo: **3037749**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.8	90	110			

Sample ID: **MB-65877**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **65877**	RunNo: **86214**							
Prep Date: **3/1/2022**	Analysis Date: **3/2/2022**	SeqNo: **3038866**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65877**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **65877**	RunNo: **86214**							
Prep Date: **3/1/2022**	Analysis Date: **3/2/2022**	SeqNo: **3038867**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A39**

08-Mar-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **LCS-65766**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **65766**	RunNo: **86063**
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3033009** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	68.9	135			
Surr: DNOP	4.3		5.000		85.4	51.1	141			

Sample ID: **MB-65766**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **65766**	RunNo: **86063**
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3033013** 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	9.6		10.00		95.5	51.1	141			

Sample ID: **LCS-65777**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **65777**	RunNo: **86122**
Prep Date: **2/24/2022**	Analysis Date: **2/25/2022**	SeqNo: **3034562** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.6	68.9	135			
Surr: DNOP	4.2		5.000		84.1	51.1	141			

Sample ID: **MB-65777**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **65777**	RunNo: **86122**
Prep Date: **2/24/2022**	Analysis Date: **2/25/2022**	SeqNo: **3034564** 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	9.9		10.00		98.9	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A39**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **mb-65765**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **65765**	RunNo: **86074**							
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3032804**	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	1100		1000		108	70	130			

Sample ID: **lcs-65765**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **65765**	RunNo: **86074**							
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3032805**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Sample ID: **2202a39-014ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP5-2**	Batch ID: **65765**	RunNo: **86074**							
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3032807**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.25	0	109	70	130			
Surr: BFB	1200		969.9		119	70	130			

Sample ID: **2202a39-014amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP5-2**	Batch ID: **65765**	RunNo: **86074**							
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3032808**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.41	0	108	70	130	0.128	20	
Surr: BFB	1200		976.6		118	70	130	0	0	

Sample ID: **lcs-65760**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **65760**	RunNo: **86093**							
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3033478**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	78.6	131			
Surr: BFB	1300		1000		125	70	130			

Sample ID: **mb-65760**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **65760**	RunNo: **86093**							
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3033479**	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A39**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **mb-65760**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65760**	RunNo: **86093**
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3033479** 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	1100		1000		107	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A39**

08-Mar-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **mb-65765**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65765**	RunNo: **86074**
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3032858** 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-65765**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65765**	RunNo: **86074**
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3032859** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.3	80	120			
Toluene	0.90	0.050	1.000	0	90.5	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: **2202a39-015ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP5-4**	Batch ID: **65765**	RunNo: **86074**
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3032862** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9597	0	94.2	80	120			
Toluene	0.97	0.048	0.9597	0	101	80	120			
Ethylbenzene	0.99	0.048	0.9597	0.01129	102	80	120			
Xylenes, Total	3.0	0.096	2.879	0	103	80	120			
Surr: 4-Bromofluorobenzene	0.97		0.9597		101	70	130			

Sample ID: **2202a39-015amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP5-4**	Batch ID: **65765**	RunNo: **86074**
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3032863** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9643	0	86.1	80	120	8.45	20	
Toluene	0.88	0.048	0.9643	0	91.4	80	120	9.09	20	
Ethylbenzene	0.90	0.048	0.9643	0.01129	92.0	80	120	9.84	20	
Xylenes, Total	2.7	0.096	2.893	0	93.4	80	120	8.96	20	
Surr: 4-Bromofluorobenzene	0.97		0.9643		101	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A39**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **lcs-65760**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **65760**	RunNo: **86093**							
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3033667**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.0	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: **mb-65760**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **65760**	RunNo: **86093**							
Prep Date: **2/23/2022**	Analysis Date: **2/24/2022**	SeqNo: **3033669**	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	0.92		1.000		92.2	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Number: 2202A39 | RcptNo: 1

Received By: Cheyenne Cason 2/23/2022 7:45:00 AM

Completed By: Sean Livingston 2/23/2022 8:18:46 AM

Reviewed By: JO 2/23/22

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPA 2/23/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				
2	2.3	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush 5 Day

Project Name:

Robinson B Federal #1

Project #:

12574110

Project Manager:

Becky Haskell

Tom Larson

Sampler: Heath Boyd

On Ice: X Yes ☐ No

# of Coolers: 2 6.7-0=6.7 Cmc

Cooler Temp(including CF): 6.3-0=6.3 Cmc 2/23/22

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2202A39	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Chloride 300 M
2/17	935	S	TP1-4	4oz Jar/1	N/A	001	X	X								X
"	945	"	TP1-12	"	"	002	X	X								X
"	955	"	TP1-19	"	"	003	X	X								X
"	1045	"	TP2-2	"	"	004	X	X								X
"	1050	"	TP2-8	"	"	005	X	X								X
"	1055	"	TP2-10	"	"	006	X	X								X
"	1230	"	TP3-5	"	"	007	X	X								X
"	1235	"	TP3-2	"	"	008	X	X								X
"	1240	"	TP3-4	"	"	009	X	X								X
"	1320	"	TP4-4	"	"	010	X	X								X
"	1325	"	TP4-12	"	"	011	X	X								X
X	1330	X	TP4-16	X	X	012	X	X								X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/17/22	1730				2/22/22	800
2/22/22	900		Cmc Courier		2/23/22	0745

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com; Heath.Boyd@ghd.com Along with Becky Haskell listed above.

1.0-0=1.0

2.3-0=2.3

Direct Bill to EOG Chase Settle

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.

Chain-of-Custody Record

Client: GHD

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☒ Rush 5 Days

Project Name:

Robinson B Federal # 1

Project #:

1257411.0

Project Manager:

Becky Haskell

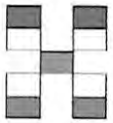
Tom Larson

Sampler: Heath Boyd

On Ice: X Yes ☐ No

# of Coolers: 2 1.0-0=1.0

Cooler Temp(including CF): 2.3-0=2.3



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Chloride 300 M
2/17	1400	S	TPS-S	4oz Jar/1	N/A	013	X	X								X
"	1405	"	TPS-2	"	"	014	X	X								X
"	1410	"	TPS-4	"	"	015	X	X								X
"	1415	"	TPS-6	"	"	016	X	X								X
"	1450	"	TP6-2	"	"	017	X	X								X
	1455		TP6-4			018	X	X								X
X	1500	X	TP6-6	X	X	019	X	X								X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/17/22	1730				2/22/22	800
2/22/22	1900		One Comm		2/23/22	0745

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com; Heath.Boyd@ghd.com Along with Becky Haskell listed above.

Direct Bill to EOG Chase Settle

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 08, 2022

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

RE: Robinson B Federal 1 OrderNo.: 2202945

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 16 sample(s) on 2/19/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

CLIENT: GHD Midland
Project: Robinson B Federal 1
Lab ID: 2202945-001 **Matrix:** SOIL

Client Sample ID: TP7-5
Collection Date: 2/18/2022 8:55:00 AM
Received Date: 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3200	150		mg/Kg	50	2/28/2022 3:40:35 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	6700	480		mg/Kg	50	2/23/2022 2:34:42 PM	65707
Motor Oil Range Organics (MRO)	5600	2400		mg/Kg	50	2/23/2022 2:34:42 PM	65707
Surr: DNOP	0	51.1-141	S	%Rec	50	2/23/2022 2:34:42 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	2/24/2022 12:33:58 AM	65698
Surr: BFB	103	70-130		%Rec	5	2/24/2022 12:33:58 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/24/2022 12:33:58 AM	65698
Toluene	ND	0.23		mg/Kg	5	2/24/2022 12:33:58 AM	65698
Ethylbenzene	ND	0.23		mg/Kg	5	2/24/2022 12:33:58 AM	65698
Xylenes, Total	ND	0.46		mg/Kg	5	2/24/2022 12:33:58 AM	65698
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	5	2/24/2022 12:33:58 AM	65698

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP7-2
Project: Robinson B Federal 1
Collection Date: 2/18/2022 9:00:00 AM
Lab ID: 2202945-002 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	890	60		mg/Kg	20	2/28/2022 11:07:31 AM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/23/2022 2:56:06 PM	65707
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/23/2022 2:56:06 PM	65707
Surr: DNOP	96.0	51.1-141		%Rec	1	2/23/2022 2:56:06 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2022 12:57:09 AM	65698
Surr: BFB	106	70-130		%Rec	1	2/24/2022 12:57:09 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/24/2022 12:57:09 AM	65698
Toluene	ND	0.049		mg/Kg	1	2/24/2022 12:57:09 AM	65698
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2022 12:57:09 AM	65698
Xylenes, Total	ND	0.099		mg/Kg	1	2/24/2022 12:57:09 AM	65698
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	2/24/2022 12:57:09 AM	65698

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP7-4
Project: Robinson B Federal 1
Collection Date: 2/18/2022 9:05:00 AM
Lab ID: 2202945-003 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	640	60		mg/Kg	20	2/28/2022 11:19:56 AM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/23/2022 3:06:55 PM	65707
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/23/2022 3:06:55 PM	65707
Surr: DNOP	98.5	51.1-141		%Rec	1	2/23/2022 3:06:55 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2022 1:20:16 AM	65698
Surr: BFB	102	70-130		%Rec	1	2/24/2022 1:20:16 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/24/2022 1:20:16 AM	65698
Toluene	ND	0.049		mg/Kg	1	2/24/2022 1:20:16 AM	65698
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2022 1:20:16 AM	65698
Xylenes, Total	ND	0.098		mg/Kg	1	2/24/2022 1:20:16 AM	65698
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	2/24/2022 1:20:16 AM	65698

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

Qualifiers:

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

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP8-2
Project: Robinson B Federal 1
Collection Date: 2/18/2022 9:15:00 AM
Lab ID: 2202945-004 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	65	60		mg/Kg	20	2/28/2022 11:32:21 AM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/23/2022 3:17:43 PM	65707
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/23/2022 3:17:43 PM	65707
Surr: DNOP	95.3	51.1-141		%Rec	1	2/23/2022 3:17:43 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2022 1:43:21 AM	65698
Surr: BFB	106	70-130		%Rec	1	2/24/2022 1:43:21 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/24/2022 1:43:21 AM	65698
Toluene	ND	0.049		mg/Kg	1	2/24/2022 1:43:21 AM	65698
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2022 1:43:21 AM	65698
Xylenes, Total	ND	0.097		mg/Kg	1	2/24/2022 1:43:21 AM	65698
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	2/24/2022 1:43:21 AM	65698

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

Qualifiers:

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

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP8-4
Project: Robinson B Federal 1
Collection Date: 2/18/2022 9:20:00 AM
Lab ID: 2202945-005 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	63	60		mg/Kg	20	2/28/2022 11:44:45 AM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/23/2022 3:28:30 PM	65707
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/23/2022 3:28:30 PM	65707
Surr: DNOP	98.7	51.1-141		%Rec	1	2/23/2022 3:28:30 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/24/2022 2:06:24 AM	65698
Surr: BFB	103	70-130		%Rec	1	2/24/2022 2:06:24 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/24/2022 2:06:24 AM	65698
Toluene	ND	0.050		mg/Kg	1	2/24/2022 2:06:24 AM	65698
Ethylbenzene	ND	0.050		mg/Kg	1	2/24/2022 2:06:24 AM	65698
Xylenes, Total	ND	0.10		mg/Kg	1	2/24/2022 2:06:24 AM	65698
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	2/24/2022 2:06:24 AM	65698

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

Qualifiers:

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

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP9-5
Project: Robinson B Federal 1
Collection Date: 2/18/2022 9:25:00 AM
Lab ID: 2202945-006 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	2700	150		mg/Kg	50	2/28/2022 3:53:00 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	17	9.2		mg/Kg	1	3/1/2022 8:24:17 PM	65707
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/1/2022 8:24:17 PM	65707
Surr: DNOP	73.8	51.1-141		%Rec	1	3/1/2022 8:24:17 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/24/2022 2:29:28 AM	65698
Surr: BFB	103	70-130		%Rec	5	2/24/2022 2:29:28 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.12		mg/Kg	5	2/24/2022 2:29:28 AM	65698
Toluene	ND	0.24		mg/Kg	5	2/24/2022 2:29:28 AM	65698
Ethylbenzene	ND	0.24		mg/Kg	5	2/24/2022 2:29:28 AM	65698
Xylenes, Total	ND	0.47		mg/Kg	5	2/24/2022 2:29:28 AM	65698
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	5	2/24/2022 2:29:28 AM	65698

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP9-2
Project: Robinson B Federal 1
Collection Date: 2/18/2022 9:35:00 AM
Lab ID: 2202945-007 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	140	60		mg/Kg	20	2/28/2022 12:34:24 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/23/2022 3:50:17 PM	65707
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/23/2022 3:50:17 PM	65707
Surr: DNOP	100	51.1-141		%Rec	1	2/23/2022 3:50:17 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/24/2022 3:15:41 AM	65698
Surr: BFB	101	70-130		%Rec	1	2/24/2022 3:15:41 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	2/24/2022 3:15:41 AM	65698
Toluene	ND	0.046		mg/Kg	1	2/24/2022 3:15:41 AM	65698
Ethylbenzene	ND	0.046		mg/Kg	1	2/24/2022 3:15:41 AM	65698
Xylenes, Total	ND	0.093		mg/Kg	1	2/24/2022 3:15:41 AM	65698
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	2/24/2022 3:15:41 AM	65698

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

Qualifiers:

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

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP10-5
Project: Robinson B Federal 1
Collection Date: 2/18/2022 9:40:00 AM
Lab ID: 2202945-008 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/28/2022 12:46:49 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	3500	460		mg/Kg	50	2/23/2022 4:01:15 PM	65707
Motor Oil Range Organics (MRO)	4600	2300		mg/Kg	50	2/23/2022 4:01:15 PM	65707
Surr: DNOP	0	51.1-141	S	%Rec	50	2/23/2022 4:01:15 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/24/2022 3:38:46 AM	65698
Surr: BFB	102	70-130		%Rec	5	2/24/2022 3:38:46 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/24/2022 3:38:46 AM	65698
Toluene	ND	0.25		mg/Kg	5	2/24/2022 3:38:46 AM	65698
Ethylbenzene	ND	0.25		mg/Kg	5	2/24/2022 3:38:46 AM	65698
Xylenes, Total	ND	0.50		mg/Kg	5	2/24/2022 3:38:46 AM	65698
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	5	2/24/2022 3:38:46 AM	65698

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP10-2
Project: Robinson B Federal 1
Collection Date: 2/18/2022 9:55:00 AM
Lab ID: 2202945-009 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/28/2022 12:59:14 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/23/2022 4:12:09 PM	65707
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/23/2022 4:12:09 PM	65707
Surr: DNOP	109	51.1-141		%Rec	1	2/23/2022 4:12:09 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/24/2022 4:01:48 AM	65698
Surr: BFB	103	70-130		%Rec	5	2/24/2022 4:01:48 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/24/2022 4:01:48 AM	65698
Toluene	ND	0.25		mg/Kg	5	2/24/2022 4:01:48 AM	65698
Ethylbenzene	ND	0.25		mg/Kg	5	2/24/2022 4:01:48 AM	65698
Xylenes, Total	ND	0.49		mg/Kg	5	2/24/2022 4:01:48 AM	65698
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	5	2/24/2022 4:01:48 AM	65698

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

CLIENT: GHD Midland
Project: Robinson B Federal 1
Lab ID: 2202945-010 **Matrix:** SOIL

Client Sample ID: TP11-5
Collection Date: 2/18/2022 10:00:00 AM
Received Date: 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1500	60		mg/Kg	20	2/28/2022 1:11:38 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	510	180		mg/Kg	20	2/28/2022 3:47:47 PM	65707
Motor Oil Range Organics (MRO)	1400	900		mg/Kg	20	2/28/2022 3:47:47 PM	65707
Surr: DNOP	0	51.1-141	S	%Rec	20	2/28/2022 3:47:47 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/24/2022 4:24:50 AM	65698
Surr: BFB	102	70-130		%Rec	5	2/24/2022 4:24:50 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/24/2022 4:24:50 AM	65698
Toluene	ND	0.25		mg/Kg	5	2/24/2022 4:24:50 AM	65698
Ethylbenzene	ND	0.25		mg/Kg	5	2/24/2022 4:24:50 AM	65698
Xylenes, Total	ND	0.50		mg/Kg	5	2/24/2022 4:24:50 AM	65698
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	5	2/24/2022 4:24:50 AM	65698

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP11-2
Project: Robinson B Federal 1
Collection Date: 2/18/2022 10:20:00 AM
Lab ID: 2202945-011 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	140	60		mg/Kg	20	2/28/2022 1:24:02 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	550	48		mg/Kg	5	2/25/2022 3:52:03 PM	65707
Motor Oil Range Organics (MRO)	1100	240		mg/Kg	5	2/25/2022 3:52:03 PM	65707
Surr: DNOP	75.9	51.1-141		%Rec	5	2/25/2022 3:52:03 PM	65707
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/24/2022 4:47:56 AM	65698
Surr: BFB	101	70-130		%Rec	5	2/24/2022 4:47:56 AM	65698
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/24/2022 4:47:56 AM	65698
Toluene	ND	0.24		mg/Kg	5	2/24/2022 4:47:56 AM	65698
Ethylbenzene	ND	0.24		mg/Kg	5	2/24/2022 4:47:56 AM	65698
Xylenes, Total	ND	0.49		mg/Kg	5	2/24/2022 4:47:56 AM	65698
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	5	2/24/2022 4:47:56 AM	65698

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

Qualifiers:

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

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP11-4
Project: Robinson B Federal 1
Collection Date: 2/18/2022 10:25:00 AM
Lab ID: 2202945-012 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	140	60		mg/Kg	20	2/28/2022 1:36:26 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	840	47		mg/Kg	5	2/25/2022 4:45:29 PM	65729
Motor Oil Range Organics (MRO)	990	240		mg/Kg	5	2/25/2022 4:45:29 PM	65729
Surr: DNOP	105	51.1-141		%Rec	5	2/25/2022 4:45:29 PM	65729
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/22/2022 3:09:09 PM	65708
Surr: BFB	111	70-130		%Rec	5	2/22/2022 3:09:09 PM	65708
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/22/2022 3:09:09 PM	65708
Toluene	ND	0.25		mg/Kg	5	2/22/2022 3:09:09 PM	65708
Ethylbenzene	ND	0.25		mg/Kg	5	2/22/2022 3:09:09 PM	65708
Xylenes, Total	ND	0.50		mg/Kg	5	2/22/2022 3:09:09 PM	65708
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	2/22/2022 3:09:09 PM	65708

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

CLIENT: GHD Midland
Client Sample ID: TP12-5
Project: Robinson B Federal 1
Collection Date: 2/18/2022 11:20:00 AM
Lab ID: 2202945-013 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/28/2022 1:48:51 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	460	190		mg/Kg	20	2/25/2022 2:47:28 PM	65729
Motor Oil Range Organics (MRO)	1400	960		mg/Kg	20	2/25/2022 2:47:28 PM	65729
Surr: DNOP	0	51.1-141	S	%Rec	20	2/25/2022 2:47:28 PM	65729
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/22/2022 4:19:46 PM	65708
Surr: BFB	112	70-130		%Rec	5	2/22/2022 4:19:46 PM	65708
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/22/2022 4:19:46 PM	65708
Toluene	ND	0.24		mg/Kg	5	2/22/2022 4:19:46 PM	65708
Ethylbenzene	ND	0.24		mg/Kg	5	2/22/2022 4:19:46 PM	65708
Xylenes, Total	ND	0.48		mg/Kg	5	2/22/2022 4:19:46 PM	65708
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	2/22/2022 4:19:46 PM	65708

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

Qualifiers:

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

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP12-4
Project: Robinson B Federal 1
Collection Date: 2/18/2022 11:25:00 AM
Lab ID: 2202945-014 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	2/28/2022 2:01:16 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	1300	190		mg/Kg	20	2/28/2022 1:05:37 PM	65729
Motor Oil Range Organics (MRO)	1400	970		mg/Kg	20	2/28/2022 1:05:37 PM	65729
Surr: DNOP	0	51.1-141	S	%Rec	20	2/28/2022 1:05:37 PM	65729
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/22/2022 5:31:01 PM	65708
Surr: BFB	109	70-130		%Rec	5	2/22/2022 5:31:01 PM	65708
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.12		mg/Kg	5	2/22/2022 5:31:01 PM	65708
Toluene	ND	0.24		mg/Kg	5	2/22/2022 5:31:01 PM	65708
Ethylbenzene	ND	0.24		mg/Kg	5	2/22/2022 5:31:01 PM	65708
Xylenes, Total	ND	0.48		mg/Kg	5	2/22/2022 5:31:01 PM	65708
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	2/22/2022 5:31:01 PM	65708

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

Qualifiers:

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

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP12-6
Project: Robinson B Federal 1
Collection Date: 2/18/2022 11:30:00 AM
Lab ID: 2202945-015 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/28/2022 2:13:41 PM	65834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	73	9.7		mg/Kg	1	2/25/2022 3:19:51 PM	65729
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	2/25/2022 3:19:51 PM	65729
Surr: DNOP	100	51.1-141		%Rec	1	2/25/2022 3:19:51 PM	65729
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/22/2022 5:54:42 PM	65708
Surr: BFB	110	70-130		%Rec	5	2/22/2022 5:54:42 PM	65708
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/22/2022 5:54:42 PM	65708
Toluene	ND	0.25		mg/Kg	5	2/22/2022 5:54:42 PM	65708
Ethylbenzene	ND	0.25		mg/Kg	5	2/22/2022 5:54:42 PM	65708
Xylenes, Total	ND	0.49		mg/Kg	5	2/22/2022 5:54:42 PM	65708
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	2/22/2022 5:54:42 PM	65708

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

Qualifiers:

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

Analytical Report
Lab Order **2202945**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP8-5
Project: Robinson B Federal 1 **Collection Date:** 2/18/2022 9:15:00 AM
Lab ID: 2202945-016 **Matrix:** SOIL **Received Date:** 2/19/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1500	60		mg/Kg	20	2/28/2022 4:04:24 PM	65839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	62	46		mg/Kg	5	2/25/2022 3:41:17 PM	65729
Motor Oil Range Organics (MRO)	310	230		mg/Kg	5	2/25/2022 3:41:17 PM	65729
Surr: DNOP	71.8	51.1-141		%Rec	5	2/25/2022 3:41:17 PM	65729
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/22/2022 6:18:19 PM	65708
Surr: BFB	110	70-130		%Rec	5	2/22/2022 6:18:19 PM	65708
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	2/22/2022 6:18:19 PM	65708
Toluene	ND	0.24		mg/Kg	5	2/22/2022 6:18:19 PM	65708
Ethylbenzene	ND	0.24		mg/Kg	5	2/22/2022 6:18:19 PM	65708
Xylenes, Total	ND	0.48		mg/Kg	5	2/22/2022 6:18:19 PM	65708
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	2/22/2022 6:18:19 PM	65708

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202945**

08-Mar-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **MB-65839**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **65839**	RunNo: **86138**							
Prep Date: **2/28/2022**	Analysis Date: **2/28/2022**	SeqNo: **3036222**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65839**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **65839**	RunNo: **86138**							
Prep Date: **2/28/2022**	Analysis Date: **2/28/2022**	SeqNo: **3036223**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Sample ID: **MB-65834**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **65834**	RunNo: **86137**							
Prep Date: **2/28/2022**	Analysis Date: **2/28/2022**	SeqNo: **3036314**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65834**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **65834**	RunNo: **86137**							
Prep Date: **2/28/2022**	Analysis Date: **2/28/2022**	SeqNo: **3036315**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202945**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **LCS-65707**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **65707**	RunNo: **86029**
Prep Date: **2/22/2022**	Analysis Date: **2/23/2022**	SeqNo: **3032026** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	68.9	135			
Surr: DNOP	5.0		5.000		99.2	51.1	141			

Sample ID: **LCS-65729**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **65729**	RunNo: **86029**
Prep Date: **2/22/2022**	Analysis Date: **2/23/2022**	SeqNo: **3032027** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.1	68.9	135			
Surr: DNOP	4.5		5.000		89.2	51.1	141			

Sample ID: **MB-65707**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **65707**	RunNo: **86029**
Prep Date: **2/22/2022**	Analysis Date: **2/23/2022**	SeqNo: **3032029** 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	9.8		10.00		97.7	51.1	141			

Sample ID: **MB-65729**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **65729**	RunNo: **86029**
Prep Date: **2/22/2022**	Analysis Date: **2/23/2022**	SeqNo: **3032030** 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	9.4		10.00		93.9	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202945**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **mb-65708**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **65708**	RunNo: **85980**							
Prep Date: **2/21/2022**	Analysis Date: **2/22/2022**	SeqNo: **3029874**	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	1100		1000		107	70	130			

Sample ID: **lcs-65708**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **65708**	RunNo: **85980**							
Prep Date: **2/21/2022**	Analysis Date: **2/22/2022**	SeqNo: **3029875**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Sample ID: **2202945-012ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP11-4**	Batch ID: **65708**	RunNo: **85980**							
Prep Date: **2/21/2022**	Analysis Date: **2/22/2022**	SeqNo: **3029877**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	25	24.85	0	123	70	130			
Surr: BFB	5700		4970		114	70	130			

Sample ID: **2202945-012amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP11-4**	Batch ID: **65708**	RunNo: **85980**							
Prep Date: **2/21/2022**	Analysis Date: **2/22/2022**	SeqNo: **3029878**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	25	24.90	0	129	70	130	5.27	20	
Surr: BFB	5700		4980		114	70	130	0	0	

Sample ID: **mb-65698**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **65698**	RunNo: **86042**							
Prep Date: **2/21/2022**	Analysis Date: **2/23/2022**	SeqNo: **3031479**	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	1100		1000		109	70	130			

Sample ID: **lcs-65698**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **65698**	RunNo: **86042**							
Prep Date: **2/21/2022**	Analysis Date: **2/23/2022**	SeqNo: **3031480**	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202945**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **lcs-65698**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **65698**	RunNo: **86042**							
Prep Date: **2/21/2022**	Analysis Date: **2/23/2022**	SeqNo: **3031480**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1200		1000		123	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202945**

08-Mar-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **mb-65708**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65708**	RunNo: **85980**
Prep Date: **2/21/2022**	Analysis Date: **2/22/2022**	SeqNo: **3029919** 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		99.8	70	130			

Sample ID: **LCS-65708**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65708**	RunNo: **85980**
Prep Date: **2/21/2022**	Analysis Date: **2/22/2022**	SeqNo: **3029921** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: **2202945-013ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP12-5**	Batch ID: **65708**	RunNo: **85980**
Prep Date: **2/21/2022**	Analysis Date: **2/22/2022**	SeqNo: **3029924** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.12	0.9615	0	81.1	80	120			
Toluene	0.84	0.24	0.9615	0	87.0	80	120			
Ethylbenzene	0.85	0.24	0.9615	0	88.2	80	120			
Xylenes, Total	2.6	0.48	2.885	0	88.6	80	120			
Surr: 4-Bromofluorobenzene	5.0		4.808		103	70	130			

Sample ID: **2202945-013amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP12-5**	Batch ID: **65708**	RunNo: **85980**
Prep Date: **2/21/2022**	Analysis Date: **2/22/2022**	SeqNo: **3029925** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.12	0.9579	0	92.0	80	120	12.2	20	
Toluene	0.95	0.24	0.9579	0	99.0	80	120	12.5	20	
Ethylbenzene	0.97	0.24	0.9579	0	101	80	120	13.4	20	
Xylenes, Total	2.9	0.48	2.874	0	101	80	120	12.7	20	
Surr: 4-Bromofluorobenzene	4.8		4.789		101	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202945**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **mb-65698**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **65698**	RunNo: **86042**							
Prep Date: **2/21/2022**	Analysis Date: **2/23/2022**	SeqNo: **3031526**	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			

Sample ID: **LCS-65698**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **65698**	RunNo: **86042**							
Prep Date: **2/21/2022**	Analysis Date: **2/23/2022**	SeqNo: **3031527**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Number: 2202945 RcptNo: 1

Received By: Juan Rojas 2/19/2022 8:20:00 AM

Completed By: Kasandra Payan 2/19/2022 9:35:17 AM

Reviewed By: KPA 2/19/22

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 2/19/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good				
2	2.0	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address: 2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush 5 Days

Project Name: Robinson B Federal #1

Project #: 12574110

Project Manager:
Becky Haskell
Tom Larson

Sampler: Heath Boyd

On Ice: (X) Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.8-0.1=1.7
2.1-0.1=2.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2202945	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Chloride 300 M
2/18/22	855	S	TP7-S	4oz. Jar/1	N/A	001	X	X								X
"	900	"	TP7-2	"	"	002	X	X								X
"	905	"	TP7-4	"	"	003	X	X								X
"	915	"	TP8-2	"	"	004	X	X								X
"	920	"	TP8-4	"	"	005	X	X								X
"	925	"	TP9-S	"	"	006	X	X								X
"	935	"	TP9-2	"	"	007	X	X								X
"	940	"	TP10-S	"	"	008	X	X								X
"	955	"	TP10-2	"	"	009	X	X								X
"	1000	"	TP11-S	"	"	010	X	X								X
"	1020	"	TP11-2	"	"	011	X	X								X
X	1025	X	TP11-4	X	X	012	X	X								X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/18/22	1500	~~[signature]~~	[signature]		2/18/22	1500
2/18/22	1900	[signature]	[signature]	courier	2/19/22	8:20

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com; Heath.Boyd@ghd.com Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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.

Chain-of-Custody Record

Client: GHD

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush 5 Days

Project Name: Robinson B Federal #1

Project #: 12574110

Project Manager:

Becky Haskell

Tom Larson

Sampler: Heath Boyd

On Ice: (X) Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.8-0.1=1.7 2.1-0.1=2.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Chloride 300 M
2/18/22	1120	S	TP12-S	4oz Jar/1	N/A	013	X	X								X
"	1125	"	TP12-4	"	"	014	X	X								X
"	1130	"	TP12-6	"	"	015	X	X								X
2/18/22	9:15		TP8-5			016										
			Per Client MPG 2/21/22													

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com; Heath.Boyd@ghd.com Along with Becky Haskell listed above.

Direct Bill to EOG Chase Settle

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/18/22	1500				2/18/22	1500
2/18/22	1900				2/19/22	8:20

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 08, 2022

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

RE: Robinson B Federal 1 OrderNo.: 2202A50

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 2/23/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP13-S
Project: Robinson B Federal 1
Collection Date: 2/21/2022 9:00:00 AM
Lab ID: 2202A50-001 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	560	60		mg/Kg	20	3/2/2022 3:58:07 AM	65883
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	9.7	8.5		mg/Kg	1	2/28/2022 8:24:06 PM	65780
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	2/28/2022 8:24:06 PM	65780
Surr: DNOP	96.3	51.1-141		%Rec	1	2/28/2022 8:24:06 PM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/25/2022 10:24:17 PM	65768
Surr: BFB	108	70-130		%Rec	1	2/25/2022 10:24:17 PM	65768
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	2/25/2022 10:24:17 PM	65768
Toluene	ND	0.047		mg/Kg	1	2/25/2022 10:24:17 PM	65768
Ethylbenzene	ND	0.047		mg/Kg	1	2/25/2022 10:24:17 PM	65768
Xylenes, Total	ND	0.093		mg/Kg	1	2/25/2022 10:24:17 PM	65768
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	2/25/2022 10:24:17 PM	65768

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

Qualifiers:

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

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP13-2
Project: Robinson B Federal 1
Collection Date: 2/21/2022 9:05:00 AM
Lab ID: 2202A50-002 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	160	60		mg/Kg	20	3/2/2022 4:10:31 AM	65883
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/26/2022 1:25:46 AM	65780
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/26/2022 1:25:46 AM	65780
Surr: DNOP	105	51.1-141		%Rec	1	2/26/2022 1:25:46 AM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2022 10:47:51 PM	65768
Surr: BFB	107	70-130		%Rec	1	2/25/2022 10:47:51 PM	65768
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	2/25/2022 10:47:51 PM	65768
Toluene	ND	0.050		mg/Kg	1	2/25/2022 10:47:51 PM	65768
Ethylbenzene	ND	0.050		mg/Kg	1	2/25/2022 10:47:51 PM	65768
Xylenes, Total	ND	0.10		mg/Kg	1	2/25/2022 10:47:51 PM	65768
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	2/25/2022 10:47:51 PM	65768

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

Qualifiers:

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

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP13-4
Project: Robinson B Federal 1
Collection Date: 2/21/2022 9:10:00 AM
Lab ID: 2202A50-003 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	140	60		mg/Kg	20	3/2/2022 4:22:56 AM	65883
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/26/2022 1:36:18 AM	65780
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/26/2022 1:36:18 AM	65780
Surr: DNOP	98.9	51.1-141		%Rec	1	2/26/2022 1:36:18 AM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2022 11:11:20 PM	65768
Surr: BFB	108	70-130		%Rec	1	2/25/2022 11:11:20 PM	65768
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	2/25/2022 11:11:20 PM	65768
Toluene	ND	0.050		mg/Kg	1	2/25/2022 11:11:20 PM	65768
Ethylbenzene	ND	0.050		mg/Kg	1	2/25/2022 11:11:20 PM	65768
Xylenes, Total	ND	0.10		mg/Kg	1	2/25/2022 11:11:20 PM	65768
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/25/2022 11:11:20 PM	65768

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

Qualifiers:

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

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP14-S
Project: Robinson B Federal 1
Collection Date: 2/21/2022 9:30:00 AM
Lab ID: 2202A50-004 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	94	60		mg/Kg	20	3/2/2022 4:35:20 AM	65883
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/26/2022 1:46:46 AM	65780
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/26/2022 1:46:46 AM	65780
Surr: DNOP	98.8	51.1-141		%Rec	1	2/26/2022 1:46:46 AM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/25/2022 11:34:50 PM	65768
Surr: BFB	108	70-130		%Rec	1	2/25/2022 11:34:50 PM	65768
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	2/25/2022 11:34:50 PM	65768
Toluene	ND	0.046		mg/Kg	1	2/25/2022 11:34:50 PM	65768
Ethylbenzene	ND	0.046		mg/Kg	1	2/25/2022 11:34:50 PM	65768
Xylenes, Total	ND	0.092		mg/Kg	1	2/25/2022 11:34:50 PM	65768
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/25/2022 11:34:50 PM	65768

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP14-2
Project: Robinson B Federal 1
Collection Date: 2/21/2022 9:35:00 AM
Lab ID: 2202A50-005 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/2/2022 4:47:44 AM	65883
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	70	9.4		mg/Kg	1	3/2/2022 12:29:30 AM	65780
Motor Oil Range Organics (MRO)	250	47		mg/Kg	1	3/2/2022 12:29:30 AM	65780
Surr: DNOP	105	51.1-141		%Rec	1	3/2/2022 12:29:30 AM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/25/2022 11:58:14 PM	65768
Surr: BFB	108	70-130		%Rec	1	2/25/2022 11:58:14 PM	65768
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/25/2022 11:58:14 PM	65768
Toluene	ND	0.048		mg/Kg	1	2/25/2022 11:58:14 PM	65768
Ethylbenzene	ND	0.048		mg/Kg	1	2/25/2022 11:58:14 PM	65768
Xylenes, Total	ND	0.097		mg/Kg	1	2/25/2022 11:58:14 PM	65768
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	2/25/2022 11:58:14 PM	65768

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP14-4
Project: Robinson B Federal 1
Collection Date: 2/21/2022 9:40:00 AM
Lab ID: 2202A50-006 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	69	60		mg/Kg	20	3/2/2022 10:07:41 AM	65892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/26/2022 2:07:40 AM	65780
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/26/2022 2:07:40 AM	65780
Surr: DNOP	116	51.1-141		%Rec	1	2/26/2022 2:07:40 AM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/26/2022 12:21:43 AM	65768
Surr: BFB	105	70-130		%Rec	1	2/26/2022 12:21:43 AM	65768
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/26/2022 12:21:43 AM	65768
Toluene	ND	0.047		mg/Kg	1	2/26/2022 12:21:43 AM	65768
Ethylbenzene	ND	0.047		mg/Kg	1	2/26/2022 12:21:43 AM	65768
Xylenes, Total	ND	0.095		mg/Kg	1	2/26/2022 12:21:43 AM	65768
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	2/26/2022 12:21:43 AM	65768

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

Qualifiers:

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

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP15-S
Project: Robinson B Federal 1
Collection Date: 2/21/2022 10:20:00 AM
Lab ID: 2202A50-007 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/2/2022 10:20:06 AM	65892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	250	91		mg/Kg	10	3/2/2022 12:50:42 AM	65780
Motor Oil Range Organics (MRO)	1000	460		mg/Kg	10	3/2/2022 12:50:42 AM	65780
Surr: DNOP	0	51.1-141	S	%Rec	10	3/2/2022 12:50:42 AM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/26/2022 12:45:09 AM	65768
Surr: BFB	105	70-130		%Rec	5	2/26/2022 12:45:09 AM	65768
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.12		mg/Kg	5	2/26/2022 12:45:09 AM	65768
Toluene	ND	0.25		mg/Kg	5	2/26/2022 12:45:09 AM	65768
Ethylbenzene	ND	0.25		mg/Kg	5	2/26/2022 12:45:09 AM	65768
Xylenes, Total	ND	0.50		mg/Kg	5	2/26/2022 12:45:09 AM	65768
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	5	2/26/2022 12:45:09 AM	65768

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP15-4
Project: Robinson B Federal 1
Collection Date: 2/21/2022 10:25:00 AM
Lab ID: 2202A50-008 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	3/2/2022 10:32:30 AM	65892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	1100	200		mg/Kg	20	3/2/2022 1:11:56 AM	65780
Motor Oil Range Organics (MRO)	2800	1000		mg/Kg	20	3/2/2022 1:11:56 AM	65780
Surr: DNOP	0	51.1-141	S	%Rec	20	3/2/2022 1:11:56 AM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/26/2022 1:08:35 AM	65768
Surr: BFB	105	70-130		%Rec	5	2/26/2022 1:08:35 AM	65768
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.12		mg/Kg	5	2/26/2022 1:08:35 AM	65768
Toluene	ND	0.24		mg/Kg	5	2/26/2022 1:08:35 AM	65768
Ethylbenzene	ND	0.24		mg/Kg	5	2/26/2022 1:08:35 AM	65768
Xylenes, Total	ND	0.48		mg/Kg	5	2/26/2022 1:08:35 AM	65768
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	5	2/26/2022 1:08:35 AM	65768

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

Qualifiers:

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

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP15-8
Project: Robinson B Federal 1
Collection Date: 2/21/2022 10:30:00 AM
Lab ID: 2202A50-009 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	3/2/2022 10:44:55 AM	65892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	630	190		mg/Kg	20	3/2/2022 1:33:03 AM	65780
Motor Oil Range Organics (MRO)	2400	930		mg/Kg	20	3/2/2022 1:33:03 AM	65780
Surr: DNOP	0	51.1-141	S	%Rec	20	3/2/2022 1:33:03 AM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/26/2022 1:31:57 AM	65768
Surr: BFB	103	70-130		%Rec	5	2/26/2022 1:31:57 AM	65768
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.12		mg/Kg	5	2/26/2022 1:31:57 AM	65768
Toluene	ND	0.24		mg/Kg	5	2/26/2022 1:31:57 AM	65768
Ethylbenzene	ND	0.24		mg/Kg	5	2/26/2022 1:31:57 AM	65768
Xylenes, Total	ND	0.48		mg/Kg	5	2/26/2022 1:31:57 AM	65768
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	5	2/26/2022 1:31:57 AM	65768

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

Qualifiers:

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

Analytical Report
Lab Order **2202A50**
Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP15-12
Project: Robinson B Federal 1 **Collection Date:** 2/21/2022 10:35:00 AM
Lab ID: 2202A50-010 **Matrix:** SOIL **Received Date:** 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	97	60		mg/Kg	20	3/2/2022 10:57:19 AM	65892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	66	9.7		mg/Kg	1	3/2/2022 12:47:29 PM	65780
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	3/2/2022 12:47:29 PM	65780
Surr: DNOP	102	51.1-141		%Rec	1	3/2/2022 12:47:29 PM	65780
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/26/2022 3:05:27 AM	65768
Surr: BFB	104	70-130		%Rec	1	2/26/2022 3:05:27 AM	65768
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	2/26/2022 3:05:27 AM	65768
Toluene	ND	0.050		mg/Kg	1	2/26/2022 3:05:27 AM	65768
Ethylbenzene	ND	0.050		mg/Kg	1	2/26/2022 3:05:27 AM	65768
Xylenes, Total	ND	0.10		mg/Kg	1	2/26/2022 3:05:27 AM	65768
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	2/26/2022 3:05:27 AM	65768

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A50**

08-Mar-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **MB-65883**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **65883**	RunNo: **86175**							
Prep Date: **3/1/2022**	Analysis Date: **3/1/2022**	SeqNo: **3037392**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65883**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **65883**	RunNo: **86175**							
Prep Date: **3/1/2022**	Analysis Date: **3/1/2022**	SeqNo: **3037393**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Sample ID: **MB-65892**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **65892**	RunNo: **86196**							
Prep Date: **3/2/2022**	Analysis Date: **3/2/2022**	SeqNo: **3038465**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65892**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **65892**	RunNo: **86196**							
Prep Date: **3/2/2022**	Analysis Date: **3/2/2022**	SeqNo: **3038466**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A50**

08-Mar-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **LCS-65780**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **65780**	RunNo: **86122**
Prep Date: **2/24/2022**	Analysis Date: **2/25/2022**	SeqNo: **3034563** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.2	68.9	135			
Surr: DNOP	4.0		5.000		80.6	51.1	141			

Sample ID: **MB-65780**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **65780**	RunNo: **86122**
Prep Date: **2/24/2022**	Analysis Date: **2/25/2022**	SeqNo: **3034565** 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	8.8		10.00		87.9	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A50**

08-Mar-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **lcs-65768**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **65768**	RunNo: **86121**
Prep Date: **2/23/2022**	Analysis Date: **2/25/2022**	SeqNo: **3034389** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: **mb-65768**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65768**	RunNo: **86121**
Prep Date: **2/23/2022**	Analysis Date: **2/25/2022**	SeqNo: **3034391** 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	1100		1000		111	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202A50**
08-Mar-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **LCS-65768**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65768**	RunNo: **86121**
Prep Date: **2/23/2022**	Analysis Date: **2/25/2022**	SeqNo: **3034455** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **mb-65768**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65768**	RunNo: **86121**
Prep Date: **2/23/2022**	Analysis Date: **2/25/2022**	SeqNo: **3034457** 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		101	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Number: 2202A50 | RcptNo: 1

Received By: Cheyenne Cason 2/23/2022 7:45:00 AM

Completed By: Sean Livingston 2/23/2022 9:06:20 AM

Reviewed By: JO 2/23/22

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPG 2/23/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				
2	2.3	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 5 Day

Project Name:

KCS Robinson B Federal #1

Project #:

12574110

Project Manager:

Becky Haskell

Tom Larson

Sampler: Heath Boyd

On Ice: X Yes ☐ No

# of Coolers: 2 ~~6.7-0=6.7 cm~~

Cooler Temp(including CF): ~~6.3-0=6.3 cm~~ 2/23/22

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2202A50	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Chloride 300 M
2/21/22	900	S	TP13-S	4oz. Jar/1	N/A	001	X	X								X
"	905	"	TP13-2	"	"	002	X	X								X
"	910	"	TP13-4	"	"	003	X	X								X
"	930	"	TP14-S	"	"	004	X	X								X
"	935	"	TP14-2	"	"	005	X	X								X
"	940	"	TP14-4	"	"	006	X	X								X
"	1020	"	TP15-3	"	"	007	X	X								X
"	1025	"	TP15-4	"	"	008	X	X								X
"	1030	"	TP15-8	"	"	009	X	X								X
"	1035	X	TP15-12	X	X	010	X	X								X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/21/22	1600					
2/22/22	1900				2/22/22	800
			Chc Courier		2/23/22	0745

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com; Heath.Boyd@ghd.com Along with Becky Haskell listed above.

1.0-0=1.0

2.3-0=2.3

Direct Bill to EOG Chase Settle

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 14, 2022

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

RE: Robinson B Federal 1 OrderNo.: 2203D53

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 26 sample(s) on 3/25/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 06, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

CLIENT: GHD Midland
Client Sample ID: TP3-8
Project: Robinson B Federal 1
Collection Date: 3/23/2022 7:45:00 AM
Lab ID: 2203D53-001 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2022 1:58:44 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1000	180		mg/Kg	20	3/30/2022 9:13:20 PM	66452
Motor Oil Range Organics (MRO)	1300	920		mg/Kg	20	3/30/2022 9:13:20 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	20	3/30/2022 9:13:20 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2022 10:11:00 PM	66412
Surr: BFB	112	37.7-212		%Rec	1	3/28/2022 10:11:00 PM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	3/28/2022 10:11:00 PM	66412
Toluene	ND	0.049		mg/Kg	1	3/28/2022 10:11:00 PM	66412
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2022 10:11:00 PM	66412
Xylenes, Total	ND	0.098		mg/Kg	1	3/28/2022 10:11:00 PM	66412
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	3/28/2022 10:11:00 PM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-12
Project: Robinson B Federal 1
Collection Date: 3/23/2022 7:55:00 AM
Lab ID: 2203D53-002 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	89	60		mg/Kg	20	3/31/2022 2:11:06 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	26000	480		mg/Kg	50	3/30/2022 8:41:37 PM	66452
Motor Oil Range Organics (MRO)	9300	2400		mg/Kg	50	3/30/2022 8:41:37 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	50	3/30/2022 8:41:37 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	5300	100		mg/Kg	20	3/28/2022 11:10:00 PM	66412
Surr: BFB	609	37.7-212	S	%Rec	20	3/28/2022 11:10:00 PM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	37	0.50		mg/Kg	20	3/28/2022 11:10:00 PM	66412
Toluene	240	10		mg/Kg	200	3/29/2022 2:03:00 PM	66412
Ethylbenzene	220	10		mg/Kg	200	3/29/2022 2:03:00 PM	66412
Xylenes, Total	260	2.0		mg/Kg	20	3/28/2022 11:10:00 PM	66412
Surr: 4-Bromofluorobenzene	269	70-130	S	%Rec	20	3/28/2022 11:10:00 PM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-16
Project: Robinson B Federal 1
Collection Date: 3/23/2022 8:10:00 AM
Lab ID: 2203D53-003 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	60		mg/Kg	20	3/31/2022 2:23:27 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	5400	190		mg/Kg	20	3/30/2022 9:34:32 PM	66452
Motor Oil Range Organics (MRO)	2000	970		mg/Kg	20	3/30/2022 9:34:32 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	20	3/30/2022 9:34:32 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	1100	98		mg/Kg	20	3/28/2022 11:29:00 PM	66412
Surr: BFB	350	37.7-212	S	%Rec	20	3/28/2022 11:29:00 PM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	3.1	0.49		mg/Kg	20	3/28/2022 11:29:00 PM	66412
Toluene	18	0.98		mg/Kg	20	3/28/2022 11:29:00 PM	66412
Ethylbenzene	37	0.98		mg/Kg	20	3/28/2022 11:29:00 PM	66412
Xylenes, Total	46	2.0		mg/Kg	20	3/28/2022 11:29:00 PM	66412
Surr: 4-Bromofluorobenzene	132	70-130	S	%Rec	20	3/28/2022 11:29:00 PM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP3-19
Project: Robinson B Federal 1 **Collection Date:** 3/23/2022 8:35:00 AM
Lab ID: 2203D53-004 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	190	60		mg/Kg	20	3/25/2022 4:47:33 PM	66406
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	1200	45		mg/Kg	5	3/28/2022 7:48:02 PM	66403
Motor Oil Range Organics (MRO)	580	220		mg/Kg	5	3/28/2022 7:48:02 PM	66403
Surr: DNOP	68.9	51.1-141		%Rec	5	3/28/2022 7:48:02 PM	66403
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	270	62		mg/Kg	20	3/25/2022 5:37:00 PM	C86769
Surr: BFB	205	37.7-212		%Rec	20	3/25/2022 5:37:00 PM	C86769
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	0.87	0.31		mg/Kg	20	3/25/2022 5:37:00 PM	D86769
Toluene	3.6	0.62		mg/Kg	20	3/25/2022 5:37:00 PM	D86769
Ethylbenzene	7.9	0.62		mg/Kg	20	3/25/2022 5:37:00 PM	D86769
Xylenes, Total	9.4	1.2		mg/Kg	20	3/25/2022 5:37:00 PM	D86769
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	20	3/25/2022 5:37:00 PM	D86769

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-8
Project: Robinson B Federal 1
Collection Date: 3/23/2022 9:00:00 AM
Lab ID: 2203D53-005 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2022 2:35:47 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	91	50		mg/Kg	5	3/31/2022 2:02:01 PM	66452
Motor Oil Range Organics (MRO)	330	250		mg/Kg	5	3/31/2022 2:02:01 PM	66452
Surr: DNOP	66.1	51.1-141		%Rec	5	3/31/2022 2:02:01 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2022 11:49:00 PM	66412
Surr: BFB	103	37.7-212		%Rec	1	3/28/2022 11:49:00 PM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/28/2022 11:49:00 PM	66412
Toluene	ND	0.049		mg/Kg	1	3/28/2022 11:49:00 PM	66412
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2022 11:49:00 PM	66412
Xylenes, Total	ND	0.098		mg/Kg	1	3/28/2022 11:49:00 PM	66412
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	3/28/2022 11:49:00 PM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-12
Project: Robinson B Federal 1
Collection Date: 3/23/2022 9:05:00 AM
Lab ID: 2203D53-006 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	4/7/2022 10:29:41 PM	66705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/8/2022 1:18:22 PM	66670
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/8/2022 1:18:22 PM	66670
Surr: DNOP	94.8	51.1-141		%Rec	1	4/8/2022 1:18:22 PM	66670
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0	H	mg/Kg	1	4/7/2022 12:28:00 PM	66675
Surr: BFB	100	37.7-212	H	%Rec	1	4/7/2022 12:28:00 PM	66675
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025	H	mg/Kg	1	4/7/2022 12:28:00 PM	66675
Toluene	ND	0.050	H	mg/Kg	1	4/7/2022 12:28:00 PM	66675
Ethylbenzene	ND	0.050	H	mg/Kg	1	4/7/2022 12:28:00 PM	66675
Xylenes, Total	ND	0.10	H	mg/Kg	1	4/7/2022 12:28:00 PM	66675
Surr: 4-Bromofluorobenzene	85.9	70-130	H	%Rec	1	4/7/2022 12:28:00 PM	66675

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-14
Project: Robinson B Federal 1
Collection Date: 3/23/2022 9:45:00 AM
Lab ID: 2203D53-007 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	500	60		mg/Kg	20	3/31/2022 3:37:30 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	610	48		mg/Kg	5	3/31/2022 2:23:22 PM	66452
Motor Oil Range Organics (MRO)	690	240		mg/Kg	5	3/31/2022 2:23:22 PM	66452
Surr: DNOP	88.8	51.1-141		%Rec	5	3/31/2022 2:23:22 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 12:09:00 AM	66412
Surr: BFB	98.4	37.7-212		%Rec	1	3/29/2022 12:09:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 12:09:00 AM	66412
Toluene	ND	0.049		mg/Kg	1	3/29/2022 12:09:00 AM	66412
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 12:09:00 AM	66412
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2022 12:09:00 AM	66412
Surr: 4-Bromofluorobenzene	81.1	70-130		%Rec	1	3/29/2022 12:09:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-16
Project: Robinson B Federal 1
Collection Date: 3/23/2022 9:55:00 AM
Lab ID: 2203D53-008 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	130	60		mg/Kg	20	3/31/2022 3:49:52 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/29/2022 11:10:13 PM	66452
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/29/2022 11:10:13 PM	66452
Surr: DNOP	73.7	51.1-141		%Rec	1	3/29/2022 11:10:13 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2022 12:28:00 AM	66412
Surr: BFB	101	37.7-212		%Rec	1	3/29/2022 12:28:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 12:28:00 AM	66412
Toluene	ND	0.050		mg/Kg	1	3/29/2022 12:28:00 AM	66412
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2022 12:28:00 AM	66412
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2022 12:28:00 AM	66412
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	3/29/2022 12:28:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP2-20
Project: Robinson B Federal 1 **Collection Date:** 3/23/2022 10:15:00 AM
Lab ID: 2203D53-009 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	710	60		mg/Kg	20	3/25/2022 4:59:54 PM	66406
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/25/2022 12:36:57 PM	66403
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/25/2022 12:36:57 PM	66403
Surr: DNOP	103	51.1-141		%Rec	1	3/25/2022 12:36:57 PM	66403
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	3/25/2022 6:36:00 PM	C86769
Surr: BFB	102	37.7-212		%Rec	1	3/25/2022 6:36:00 PM	C86769
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.016		mg/Kg	1	3/25/2022 6:36:00 PM	D86769
Toluene	ND	0.032		mg/Kg	1	3/25/2022 6:36:00 PM	D86769
Ethylbenzene	ND	0.032		mg/Kg	1	3/25/2022 6:36:00 PM	D86769
Xylenes, Total	ND	0.064		mg/Kg	1	3/25/2022 6:36:00 PM	D86769
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	3/25/2022 6:36:00 PM	D86769

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP7-6
Project: Robinson B Federal 1
Collection Date: 3/23/2022 10:35:00 AM
Lab ID: 2203D53-010 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	92	60		mg/Kg	20	3/31/2022 4:02:13 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/29/2022 11:20:46 PM	66452
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/29/2022 11:20:46 PM	66452
Surr: DNOP	75.2	51.1-141		%Rec	1	3/29/2022 11:20:46 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2022 12:48:00 AM	66412
Surr: BFB	102	37.7-212		%Rec	1	3/29/2022 12:48:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 12:48:00 AM	66412
Toluene	ND	0.050		mg/Kg	1	3/29/2022 12:48:00 AM	66412
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2022 12:48:00 AM	66412
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2022 12:48:00 AM	66412
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	3/29/2022 12:48:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP11-8
Project: Robinson B Federal 1
Collection Date: 3/23/2022 11:00:00 AM
Lab ID: 2203D53-012 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	130	60		mg/Kg	20	3/31/2022 4:14:33 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/29/2022 11:31:19 PM	66452
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/29/2022 11:31:19 PM	66452
Surr: DNOP	84.2	51.1-141		%Rec	1	3/29/2022 11:31:19 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 1:08:00 AM	66412
Surr: BFB	99.2	37.7-212		%Rec	1	3/29/2022 1:08:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 1:08:00 AM	66412
Toluene	ND	0.049		mg/Kg	1	3/29/2022 1:08:00 AM	66412
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 1:08:00 AM	66412
Xylenes, Total	ND	0.098		mg/Kg	1	3/29/2022 1:08:00 AM	66412
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	3/29/2022 1:08:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP12-8
Project: Robinson B Federal 1
Collection Date: 3/23/2022 11:30:00 AM
Lab ID: 2203D53-014 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2022 4:26:54 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	520	48		mg/Kg	5	3/31/2022 2:44:47 PM	66452
Motor Oil Range Organics (MRO)	980	240		mg/Kg	5	3/31/2022 2:44:47 PM	66452
Surr: DNOP	93.5	51.1-141		%Rec	5	3/31/2022 2:44:47 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 1:27:00 AM	66412
Surr: BFB	104	37.7-212		%Rec	1	3/29/2022 1:27:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 1:27:00 AM	66412
Toluene	ND	0.049		mg/Kg	1	3/29/2022 1:27:00 AM	66412
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 1:27:00 AM	66412
Xylenes, Total	ND	0.097		mg/Kg	1	3/29/2022 1:27:00 AM	66412
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	3/29/2022 1:27:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP12-12
Project: Robinson B Federal 1
Collection Date: 3/23/2022 11:40:00 AM
Lab ID: 2203D53-015 **Matrix:** SOIL
Received Date: 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	240	60		mg/Kg	20	3/31/2022 4:39:15 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	46	9.9		mg/Kg	1	4/1/2022 11:42:50 AM	66452
Motor Oil Range Organics (MRO)	190	50		mg/Kg	1	4/1/2022 11:42:50 AM	66452
Surr: DNOP	100	51.1-141		%Rec	1	4/1/2022 11:42:50 AM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 1:47:00 AM	66412
Surr: BFB	100	37.7-212		%Rec	1	3/29/2022 1:47:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 1:47:00 AM	66412
Toluene	ND	0.049		mg/Kg	1	3/29/2022 1:47:00 AM	66412
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 1:47:00 AM	66412
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2022 1:47:00 AM	66412
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	3/29/2022 1:47:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP12-14
Project: Robinson B Federal 1
Collection Date: 3/23/2022 11:45:00 AM
Lab ID: 2203D53-016 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	61		mg/Kg	20	4/7/2022 10:42:01 PM	66705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	4/8/2022 1:39:31 PM	66670
Motor Oil Range Organics (MRO)	52	49		mg/Kg	1	4/8/2022 1:39:31 PM	66670
Surr: DNOP	93.3	51.1-141		%Rec	1	4/8/2022 1:39:31 PM	66670
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0	H	mg/Kg	1	4/7/2022 12:48:00 PM	66675
Surr: BFB	94.8	37.7-212	H	%Rec	1	4/7/2022 12:48:00 PM	66675
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025	H	mg/Kg	1	4/7/2022 12:48:00 PM	66675
Toluene	ND	0.050	H	mg/Kg	1	4/7/2022 12:48:00 PM	66675
Ethylbenzene	ND	0.050	H	mg/Kg	1	4/7/2022 12:48:00 PM	66675
Xylenes, Total	ND	0.10	H	mg/Kg	1	4/7/2022 12:48:00 PM	66675
Surr: 4-Bromofluorobenzene	80.8	70-130	H	%Rec	1	4/7/2022 12:48:00 PM	66675

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP15-14
Project: Robinson B Federal 1
Collection Date: 3/23/2022 1:20:00 PM
Lab ID: 2203D53-017 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	150	60		mg/Kg	20	3/31/2022 7:33:31 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/1/2022 12:14:20 PM	66452
Motor Oil Range Organics (MRO)	76	49		mg/Kg	1	4/1/2022 12:14:20 PM	66452
Surr: DNOP	119	51.1-141		%Rec	1	4/1/2022 12:14:20 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/29/2022 2:07:00 AM	66412
Surr: BFB	100	37.7-212		%Rec	1	3/29/2022 2:07:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 2:07:00 AM	66412
Toluene	ND	0.048		mg/Kg	1	3/29/2022 2:07:00 AM	66412
Ethylbenzene	ND	0.048		mg/Kg	1	3/29/2022 2:07:00 AM	66412
Xylenes, Total	ND	0.095		mg/Kg	1	3/29/2022 2:07:00 AM	66412
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	3/29/2022 2:07:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP16-S
Project: Robinson B Federal 1
Collection Date: 3/23/2022 1:40:00 PM
Lab ID: 2203D53-019 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	61		mg/Kg	20	3/31/2022 7:45:56 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/30/2022 10:31:11 AM	66452
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/30/2022 10:31:11 AM	66452
Surr: DNOP	92.5	51.1-141		%Rec	1	3/30/2022 10:31:11 AM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 4:05:00 AM	66412
Surr: BFB	98.8	37.7-212		%Rec	1	3/29/2022 4:05:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 4:05:00 AM	66412
Toluene	ND	0.049		mg/Kg	1	3/29/2022 4:05:00 AM	66412
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 4:05:00 AM	66412
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2022 4:05:00 AM	66412
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	3/29/2022 4:05:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP16-2
Project: Robinson B Federal 1
Collection Date: 3/23/2022 1:50:00 PM
Lab ID: 2203D53-020 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	3/31/2022 7:58:21 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/29/2022 11:41:51 PM	66452
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/29/2022 11:41:51 PM	66452
Surr: DNOP	77.4	51.1-141		%Rec	1	3/29/2022 11:41:51 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2022 4:25:00 AM	66412
Surr: BFB	103	37.7-212		%Rec	1	3/29/2022 4:25:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 4:25:00 AM	66412
Toluene	ND	0.050		mg/Kg	1	3/29/2022 4:25:00 AM	66412
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2022 4:25:00 AM	66412
Xylenes, Total	ND	0.10		mg/Kg	1	3/29/2022 4:25:00 AM	66412
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	3/29/2022 4:25:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP17-2
Project: Robinson B Federal 1
Collection Date: 3/23/2022 2:00:00 PM
Lab ID: 2203D53-021 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	3/31/2022 8:10:46 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	680	99		mg/Kg	10	3/31/2022 3:49:12 PM	66452
Motor Oil Range Organics (MRO)	1200	490		mg/Kg	10	3/31/2022 3:49:12 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	10	3/31/2022 3:49:12 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2022 4:45:00 AM	66412
Surr: BFB	102	37.7-212		%Rec	1	3/29/2022 4:45:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 4:45:00 AM	66412
Toluene	ND	0.050		mg/Kg	1	3/29/2022 4:45:00 AM	66412
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2022 4:45:00 AM	66412
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2022 4:45:00 AM	66412
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	3/29/2022 4:45:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP17-4
Project: Robinson B Federal 1
Collection Date: 3/23/2022 2:10:00 PM
Lab ID: 2203D53-022 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	3/31/2022 8:23:11 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	2400	480		mg/Kg	50	3/30/2022 7:59:16 PM	66452
Motor Oil Range Organics (MRO)	3800	2400		mg/Kg	50	3/30/2022 7:59:16 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	50	3/30/2022 7:59:16 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2022 5:04:00 AM	66412
Surr: BFB	96.9	37.7-212		%Rec	1	3/29/2022 5:04:00 AM	66412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 5:04:00 AM	66412
Toluene	ND	0.050		mg/Kg	1	3/29/2022 5:04:00 AM	66412
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2022 5:04:00 AM	66412
Xylenes, Total	ND	0.10		mg/Kg	1	3/29/2022 5:04:00 AM	66412
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	3/29/2022 5:04:00 AM	66412

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP17-8
Project: Robinson B Federal 1
Collection Date: 3/23/2022 2:20:00 PM
Lab ID: 2203D53-023 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	3/31/2022 9:00:25 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	310	9.9		mg/Kg	1	3/31/2022 9:16:15 PM	66474
Motor Oil Range Organics (MRO)	800	49		mg/Kg	1	3/31/2022 9:16:15 PM	66474
Surr: DNOP	111	51.1-141		%Rec	1	3/31/2022 9:16:15 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 8:02:07 AM	66414
Surr: BFB	95.1	37.7-212		%Rec	1	3/29/2022 8:02:07 AM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 8:02:07 AM	66414
Toluene	ND	0.049		mg/Kg	1	3/29/2022 8:02:07 AM	66414
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 8:02:07 AM	66414
Xylenes, Total	ND	0.098		mg/Kg	1	3/29/2022 8:02:07 AM	66414
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	3/29/2022 8:02:07 AM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP17-10
Project: Robinson B Federal 1
Collection Date: 3/23/2022 2:30:00 PM
Lab ID: 2203D53-024 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	61		mg/Kg	20	3/31/2022 9:37:38 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/30/2022 12:03:44 PM	66474
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/30/2022 12:03:44 PM	66474
Surr: DNOP	118	51.1-141		%Rec	1	3/30/2022 12:03:44 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/29/2022 9:12:51 AM	66414
Surr: BFB	95.2	37.7-212		%Rec	1	3/29/2022 9:12:51 AM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 9:12:51 AM	66414
Toluene	ND	0.048		mg/Kg	1	3/29/2022 9:12:51 AM	66414
Ethylbenzene	ND	0.048		mg/Kg	1	3/29/2022 9:12:51 AM	66414
Xylenes, Total	ND	0.096		mg/Kg	1	3/29/2022 9:12:51 AM	66414
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/29/2022 9:12:51 AM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP18-S
Project: Robinson B Federal 1
Collection Date: 3/23/2022 2:40:00 PM
Lab ID: 2203D53-025 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	3/31/2022 9:50:02 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/1/2022 12:54:22 AM	66474
Motor Oil Range Organics (MRO)	90	50		mg/Kg	1	4/1/2022 12:54:22 AM	66474
Surr: DNOP	77.1	51.1-141		%Rec	1	4/1/2022 12:54:22 AM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2022 10:23:20 AM	66414
Surr: BFB	99.1	37.7-212		%Rec	1	3/29/2022 10:23:20 AM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.051	0.025		mg/Kg	1	3/29/2022 10:23:20 AM	66414
Toluene	ND	0.050		mg/Kg	1	3/29/2022 10:23:20 AM	66414
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2022 10:23:20 AM	66414
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2022 10:23:20 AM	66414
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	3/29/2022 10:23:20 AM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D53**
Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP18-2
Project: Robinson B Federal 1
Collection Date: 3/23/2022 2:50:00 PM
Lab ID: 2203D53-026 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	3/31/2022 10:02:27 PM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/30/2022 12:52:24 PM	66474
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/30/2022 12:52:24 PM	66474
Surr: DNOP	92.4	51.1-141		%Rec	1	3/30/2022 12:52:24 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 10:46:45 AM	66414
Surr: BFB	97.5	37.7-212		%Rec	1	3/29/2022 10:46:45 AM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 10:46:45 AM	66414
Toluene	ND	0.049		mg/Kg	1	3/29/2022 10:46:45 AM	66414
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 10:46:45 AM	66414
Xylenes, Total	ND	0.097		mg/Kg	1	3/29/2022 10:46:45 AM	66414
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	3/29/2022 10:46:45 AM	66414

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID:	**MB-66406**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**66406**	RunNo:	**86792**					
Prep Date:	**3/25/2022**	Analysis Date:	**3/25/2022**	SeqNo:	**3065727**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-66406**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**66406**	RunNo:	**86792**					
Prep Date:	**3/25/2022**	Analysis Date:	**3/25/2022**	SeqNo:	**3065735**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.1	90	110			

Sample ID:	**MB-66517**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**66517**	RunNo:	**86869**					
Prep Date:	**3/30/2022**	Analysis Date:	**3/30/2022**	SeqNo:	**3068868**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-66517**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**66517**	RunNo:	**86869**					
Prep Date:	**3/30/2022**	Analysis Date:	**3/30/2022**	SeqNo:	**3068869**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Sample ID:	**MB-66531**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**66531**	RunNo:	**86885**					
Prep Date:	**3/31/2022**	Analysis Date:	**3/31/2022**	SeqNo:	**3070543**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-66531**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**66531**	RunNo:	**86885**					
Prep Date:	**3/31/2022**	Analysis Date:	**3/31/2022**	SeqNo:	**3070544**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **MB-66705**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **66705**	RunNo: **87092**
Prep Date: **4/7/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078859** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66705**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **66705**	RunNo: **87092**
Prep Date: **4/7/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078860** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **LCS-66403**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66403**	RunNo: **86774**
Prep Date: **3/25/2022**	Analysis Date: **3/25/2022**	SeqNo: **3064237** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	68.9	135			
Surr: DNOP	3.9		5.000		77.9	51.1	141			

Sample ID: **MB-66403**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66403**	RunNo: **86774**
Prep Date: **3/25/2022**	Analysis Date: **3/25/2022**	SeqNo: **3064239** 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	8.9		10.00		88.6	51.1	141			

Sample ID: **2203D53-004AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP3-19**	Batch ID: **66403**	RunNo: **86781**
Prep Date: **3/25/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065103** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	1300	43	42.66	1194	315	36.1	154			S
Surr: DNOP	0.63		4.266		14.7	51.1	141			S

Sample ID: **2203D53-004AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP3-19**	Batch ID: **66403**	RunNo: **86781**
Prep Date: **3/25/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065104** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	1400	50	49.75	1194	321	36.1	154	1.87	33.9	S
Surr: DNOP	3.7		4.975		75.3	51.1	141	0	0	

Sample ID: **LCS-66443**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66443**	RunNo: **86803**
Prep Date: **3/28/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066791** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	51.1	141			

Sample ID: **LCS-66452**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66452**	RunNo: **86803**
Prep Date: **3/28/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066792** 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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **LCS-66452**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66452**	RunNo: **86803**
Prep Date: **3/28/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066792** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	68.9	135			
Surr: DNOP	4.6		5.000		91.8	51.1	141			

Sample ID: **MB-66443**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66443**	RunNo: **86803**
Prep Date: **3/28/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066795** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		99.6	51.1	141			

Sample ID: **MB-66452**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66452**	RunNo: **86803**
Prep Date: **3/28/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066796** 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		117	51.1	141			

Sample ID: **LCS-66474**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66474**	RunNo: **86875**
Prep Date: **3/29/2022**	Analysis Date: **3/30/2022**	SeqNo: **3069217** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.9	68.9	135			
Surr: DNOP	4.1		5.000		81.3	51.1	141			

Sample ID: **MB-66474**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66474**	RunNo: **86875**
Prep Date: **3/29/2022**	Analysis Date: **3/30/2022**	SeqNo: **3069218** 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	9.7		10.00		97.2	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **LCS-66507**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66507**	RunNo: **86887**
Prep Date: **3/30/2022**	Analysis Date: **3/31/2022**	SeqNo: **3069715** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.1	51.1	141			

Sample ID: **MB-66507**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66507**	RunNo: **86887**
Prep Date: **3/30/2022**	Analysis Date: **3/31/2022**	SeqNo: **3069718** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		88.8	51.1	141			

Sample ID: **2203D53-023AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP17-8**	Batch ID: **66474**	RunNo: **86904**
Prep Date: **3/29/2022**	Analysis Date: **3/31/2022**	SeqNo: **3070210** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	320	9.7	48.45	314.6	17.4	36.1	154			S
Surr: DNOP	5.1		4.845		105	51.1	141			

Sample ID: **2203D53-023AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP17-8**	Batch ID: **66474**	RunNo: **86904**
Prep Date: **3/29/2022**	Analysis Date: **3/31/2022**	SeqNo: **3070211** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	310	9.9	49.31	314.6	-8.27	36.1	154	3.95	33.9	S
Surr: DNOP	5.2		4.931		105	51.1	141	0	0	

Sample ID: **LCS-66670**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66670**	RunNo: **87064**
Prep Date: **4/6/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078634** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.0	68.9	135			
Surr: DNOP	5.1		5.000		101	51.1	141			

Sample ID: **MB-66670**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66670**	RunNo: **87064**
Prep Date: **4/6/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078637** 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								

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **MB-66670**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66670**	RunNo: **87064**
Prep Date: **4/6/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078637** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.2	51.1	141			

Sample ID: **MB-66715**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66715**	RunNo: **87125**
Prep Date: **4/7/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080356** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	51.1	141			

Sample ID: **LCS-66715**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66715**	RunNo: **87125**
Prep Date: **4/7/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080358** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **C86769**	RunNo: **86769**							
Prep Date:	Analysis Date: **3/25/2022**	SeqNo: **3064025**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	72.3	137			
Surr: BFB	2100		1000		215	37.7	212			S

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **C86769**	RunNo: **86769**							
Prep Date:	Analysis Date: **3/25/2022**	SeqNo: **3064026**	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		101	37.7	212			

Sample ID: **lcs-66412**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **66412**	RunNo: **86795**							
Prep Date: **3/25/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065000**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	124	72.3	137			
Surr: BFB	2300		1000		231	37.7	212			S

Sample ID: **mb-66412**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66412**	RunNo: **86795**							
Prep Date: **3/25/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065001**	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	1100		1000		109	37.7	212			

Sample ID: **lcs-66421**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **66421**	RunNo: **86795**							
Prep Date: **3/27/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065002**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2300		1000		227	37.7	212			S

Sample ID: **mb-66421**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66421**	RunNo: **86795**							
Prep Date: **3/27/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065003**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		105	37.7	212			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **mb-66414**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066190** 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	990		1000		99.4	37.7	212			

Sample ID: **lcs-66414**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066191** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2000		1000		204	37.7	212			

Sample ID: **2203d53-023ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP17-8**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066193** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.80	0	107	70	130			
Surr: BFB	2000		992.1		199	37.7	212			

Sample ID: **2203d53-023amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP17-8**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066194** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.90	0	101	70	130	4.60	20	
Surr: BFB	2000		996.0		198	37.7	212	0	0	

Sample ID: **lcs-66420**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **66420**	RunNo: **86835**
Prep Date: **3/27/2022**	Analysis Date: **3/29/2022**	SeqNo: **3067119** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2300		1000		234	37.7	212			S

Sample ID: **mb-66420**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **66420**	RunNo: **86835**
Prep Date: **3/27/2022**	Analysis Date: **3/29/2022**	SeqNo: **3067120** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		97.9	37.7	212			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **lcs-66675**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **66675**	RunNo: **87084**
Prep Date: **4/6/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078370** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	2200		1000		219	37.7	212			S

Sample ID: **mb-66675**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **66675**	RunNo: **87084**
Prep Date: **4/6/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078371** 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	1100		1000		109	37.7	212			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **D86769**	RunNo: **86769**
Prep Date:	Analysis Date: **3/25/2022**	SeqNo: **3064035** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.6	80	120			
Toluene	0.91	0.050	1.000	0	90.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **D86769**	RunNo: **86769**
Prep Date:	Analysis Date: **3/25/2022**	SeqNo: **3064036** 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	0.86		1.000		86.1	70	130			

Sample ID: **2203d53-004a ms**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP3-19**	Batch ID: **D86769**	RunNo: **86769**
Prep Date:	Analysis Date: **3/25/2022**	SeqNo: **3064040** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	12	0.31	12.35	0.8743	86.9	68.8	120			
Toluene	15	0.62	12.35	3.616	89.9	73.6	124			
Ethylbenzene	19	0.62	12.35	7.903	92.0	72.7	129			
Xylenes, Total	43	1.2	37.04	9.417	89.6	75.7	126			
Surr: 4-Bromofluorobenzene	13		12.35		103	70	130			

Sample ID: **2203D53-004A MSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP3-19**	Batch ID: **D86769**	RunNo: **86769**
Prep Date:	Analysis Date: **3/25/2022**	SeqNo: **3064041** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	11	0.31	12.35	0.8743	82.6	68.8	120	4.72	20	
Toluene	14	0.62	12.35	3.616	84.3	73.6	124	4.81	20	
Ethylbenzene	18	0.62	12.35	7.903	83.6	72.7	129	5.54	20	
Xylenes, Total	41	1.2	37.04	9.417	84.8	75.7	126	4.31	20	
Surr: 4-Bromofluorobenzene	12		12.35		99.8	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **lcs-66412**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **66412**	RunNo: **86795**
Prep Date: **3/25/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065042** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.3	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.6	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	70	130			

Sample ID: **mb-66412**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **66412**	RunNo: **86795**
Prep Date: **3/25/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065043** 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	0.87		1.000		86.9	70	130			

Sample ID: **lcs-66421**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **66421**	RunNo: **86795**
Prep Date: **3/27/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065044** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

Sample ID: **mb-66421**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **66421**	RunNo: **86795**
Prep Date: **3/27/2022**	Analysis Date: **3/28/2022**	SeqNo: **3065045** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.6	70	130			

Sample ID: **mb-66414**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066238** 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								

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **mb-66414**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066238** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: **LCS-66414**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066239** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.2	80	120			
Toluene	0.84	0.050	1.000	0	84.1	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.1	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.3	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Sample ID: **2203d53-024ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP17-10**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066242** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.024	0.9756	0	81.2	68.8	120			
Toluene	0.83	0.049	0.9756	0	85.6	73.6	124			
Ethylbenzene	0.85	0.049	0.9756	0.01077	85.7	72.7	129			
Xylenes, Total	2.6	0.098	2.927	0	87.4	75.7	126			
Surr: 4-Bromofluorobenzene	0.99		0.9756		101	70	130			

Sample ID: **2203d53-024amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP17-10**	Batch ID: **66414**	RunNo: **86824**
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066243** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9653	0	80.6	68.8	120	1.72	20	
Toluene	0.81	0.048	0.9653	0	84.2	73.6	124	2.72	20	
Ethylbenzene	0.83	0.048	0.9653	0.01077	85.3	72.7	129	1.53	20	
Xylenes, Total	2.5	0.097	2.896	0	86.6	75.7	126	2.00	20	
Surr: 4-Bromofluorobenzene	0.98		0.9653		101	70	130	0	0	

Sample ID: **lcs-66420**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **66420**	RunNo: **86835**
Prep Date: **3/27/2022**	Analysis Date: **3/29/2022**	SeqNo: **3067166** Units: **%Rec**

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D53**

14-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **lcs-66420**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **66420**	RunNo: **86835**
Prep Date: **3/27/2022**	Analysis Date: **3/29/2022**	SeqNo: **3067166** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.81		1.000		81.3	70	130			

Sample ID: **mb-66420**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **66420**	RunNo: **86835**
Prep Date: **3/27/2022**	Analysis Date: **3/29/2022**	SeqNo: **3067167** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.82		1.000		81.7	70	130			

Sample ID: **lcs-66675**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **66675**	RunNo: **87084**
Prep Date: **4/6/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078399** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.6	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.9	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	70	130			

Sample ID: **mb-66675**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **66675**	RunNo: **87084**
Prep Date: **4/6/2022**	Analysis Date: **4/7/2022**	SeqNo: **3078400** 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	0.91		1.000		91.2	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Number: **2203D53** RcptNo: **1**

Received By: **Cheyenne Cason** **3/25/2022 7:23:00 AM**

Completed By: **Cheyenne Cason** **3/25/2022 7:56:38 AM**

Reviewed By: SCA 3/25/22

Chain of Custody

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

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	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JR 3/25/22

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Not Present			
2	1.6	Good	Not Present			
3	2.8	Good	Not Present			

1 of 3

Chain-of-Custody Record

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 ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 24 hr rush on TP3-17 + TP2-20
☒ Standard ☐ Rush 5-day

Project Name: Robinson B Federal #1

Project #: 12574110

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 3 2.9-0=2.9

Cooler Temp(including CF): 1.6-0=1.6 2.8-0=2.8

HEAL No. 2203053

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300	Hold Sample	24 hr Rush			
03232	0745	S	TP3-8	Jar		001	X	X									X					
	0755		TP3-12			002																
	0810		TP3-16			003																
	0835		TP3-18			004													X			
	0900		TP5-8			005																
	0905		TP5-12			006												X				
	0945		TP2-14			007																
	0955		TP2-16			008																
	1015		TP2-20			009													X			
	1035		TP7-6			010																
	1045		TP7-8			011												X				
	1100		TP11-8			012																

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
03232	0800	Zach Comino				
3/24/22	1900				3/24/22	800
			One Call		3/25/22	0723

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.com: Along with Becky Haskell listed above.
~~Direct Bill to EOG Chase Settle~~

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Chain-of-Custody Record

2 of 3

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 ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush 5-day

Project Name: Robinson B Federal #1

Project #: 1257410

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): See first page

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 220353	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300	Hold Sample
032322	1100	S	TP11-10	Jar		013	X	X									X	X
	1130		TP12-8			014												
	1140		TP12-12			015												
	1145		TP12-14			016												X
	1320		TP15-14			017												
	1350		TP15-16			018												X
	1340		TP16-S			019												
	1350		TP16-2			020												
	1400		TP17-2			021												
	1410		TP17-4			022												
	1420		TP17-8			023												
↓	1430	↓	TP17-10	↓		024	↓	↓									↓	

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
032422	0800	Zach Comino				
3/24/22	1900				3/24/22	800
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			One Comm	3/25/22		0723

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.com: Along with Becky Haskell listed above.
~~Direct Bill to EOG Chase Settle~~

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.

Chain-of-Custody Record

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 ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush 5-day

Project Name: Robinson B Federal #1

Project #: 1257410

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): See Next page

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
						2203053											
032322	1440	S	TP8-S	Jar		025	X	X									X
X	1450	X	TP8-2	X		026	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
032422	0800	Zach Comino			3/24/22	800
3/24/22	1900		One Call		3/25/22	0723

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.com: Along with Becky Haskell listed above.

~~Direct Bill to EOG Chase Settle~~

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 05, 2022

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

RE: Robinson B Federal 1 OrderNo.: 2203D57

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/25/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP19-S
Project: Robinson B Federal 1
Collection Date: 3/24/2022 7:30:00 AM
Lab ID: 2203D57-001 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	4/1/2022 12:19:00 AM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/30/2022 4:04:56 PM	66474
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/30/2022 4:04:56 PM	66474
Surr: DNOP	119	51.1-141		%Rec	1	3/30/2022 4:04:56 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/29/2022 2:26:34 PM	66414
Surr: BFB	94.9	37.7-212		%Rec	1	3/29/2022 2:26:34 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 2:26:34 PM	66414
Toluene	ND	0.048		mg/Kg	1	3/29/2022 2:26:34 PM	66414
Ethylbenzene	ND	0.048		mg/Kg	1	3/29/2022 2:26:34 PM	66414
Xylenes, Total	ND	0.097		mg/Kg	1	3/29/2022 2:26:34 PM	66414
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	3/29/2022 2:26:34 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP19-2
Project: Robinson B Federal 1
Collection Date: 3/24/2022 7:35:00 AM
Lab ID: 2203D57-002 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	4/1/2022 12:31:24 AM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/30/2022 4:29:17 PM	66474
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/30/2022 4:29:17 PM	66474
Surr: DNOP	111	51.1-141		%Rec	1	3/30/2022 4:29:17 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/29/2022 2:50:05 PM	66414
Surr: BFB	97.3	37.7-212		%Rec	1	3/29/2022 2:50:05 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 2:50:05 PM	66414
Toluene	ND	0.047		mg/Kg	1	3/29/2022 2:50:05 PM	66414
Ethylbenzene	ND	0.047		mg/Kg	1	3/29/2022 2:50:05 PM	66414
Xylenes, Total	ND	0.095		mg/Kg	1	3/29/2022 2:50:05 PM	66414
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	3/29/2022 2:50:05 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP20-S
Project: Robinson B Federal 1
Collection Date: 3/24/2022 7:50:00 AM
Lab ID: 2203D57-003 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	4/1/2022 12:43:49 AM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/30/2022 5:17:53 PM	66474
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/30/2022 5:17:53 PM	66474
Surr: DNOP	92.1	51.1-141		%Rec	1	3/30/2022 5:17:53 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 3:13:36 PM	66414
Surr: BFB	95.9	37.7-212		%Rec	1	3/29/2022 3:13:36 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 3:13:36 PM	66414
Toluene	ND	0.049		mg/Kg	1	3/29/2022 3:13:36 PM	66414
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 3:13:36 PM	66414
Xylenes, Total	ND	0.097		mg/Kg	1	3/29/2022 3:13:36 PM	66414
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	3/29/2022 3:13:36 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP20-2
Project: Robinson B Federal 1 **Collection Date:** 3/24/2022 8:00:00 AM
Lab ID: 2203D57-004 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	4/1/2022 12:56:13 AM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/30/2022 5:42:17 PM	66474
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/30/2022 5:42:17 PM	66474
Surr: DNOP	108	51.1-141		%Rec	1	3/30/2022 5:42:17 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/29/2022 3:36:56 PM	66414
Surr: BFB	99.3	37.7-212		%Rec	1	3/29/2022 3:36:56 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 3:36:56 PM	66414
Toluene	ND	0.048		mg/Kg	1	3/29/2022 3:36:56 PM	66414
Ethylbenzene	ND	0.048		mg/Kg	1	3/29/2022 3:36:56 PM	66414
Xylenes, Total	ND	0.096		mg/Kg	1	3/29/2022 3:36:56 PM	66414
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	3/29/2022 3:36:56 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP21-S
Project: Robinson B Federal 1
Collection Date: 3/24/2022 8:10:00 AM
Lab ID: 2203D57-005 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	4/1/2022 1:08:38 AM	66531
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/30/2022 6:06:44 PM	66474
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/30/2022 6:06:44 PM	66474
Surr: DNOP	119	51.1-141		%Rec	1	3/30/2022 6:06:44 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/29/2022 4:00:22 PM	66414
Surr: BFB	98.1	37.7-212		%Rec	1	3/29/2022 4:00:22 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	3/29/2022 4:00:22 PM	66414
Toluene	ND	0.047		mg/Kg	1	3/29/2022 4:00:22 PM	66414
Ethylbenzene	ND	0.047		mg/Kg	1	3/29/2022 4:00:22 PM	66414
Xylenes, Total	ND	0.094		mg/Kg	1	3/29/2022 4:00:22 PM	66414
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/29/2022 4:00:22 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP21-2
Project: Robinson B Federal 1
Collection Date: 3/24/2022 8:20:00 AM
Lab ID: 2203D57-006 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	3/31/2022 11:51:23 PM	66549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/30/2022 6:31:05 PM	66474
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/30/2022 6:31:05 PM	66474
Surr: DNOP	141	51.1-141		%Rec	1	3/30/2022 6:31:05 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 4:23:56 PM	66414
Surr: BFB	98.4	37.7-212		%Rec	1	3/29/2022 4:23:56 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 4:23:56 PM	66414
Toluene	ND	0.049		mg/Kg	1	3/29/2022 4:23:56 PM	66414
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 4:23:56 PM	66414
Xylenes, Total	ND	0.098		mg/Kg	1	3/29/2022 4:23:56 PM	66414
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	3/29/2022 4:23:56 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP22-S
Project: Robinson B Federal 1
Collection Date: 3/24/2022 8:30:00 AM
Lab ID: 2203D57-007 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/1/2022 12:03:44 AM	66549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/30/2022 6:55:35 PM	66474
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/30/2022 6:55:35 PM	66474
Surr: DNOP	134	51.1-141		%Rec	1	3/30/2022 6:55:35 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 4:47:35 PM	66414
Surr: BFB	99.9	37.7-212		%Rec	1	3/29/2022 4:47:35 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 4:47:35 PM	66414
Toluene	ND	0.049		mg/Kg	1	3/29/2022 4:47:35 PM	66414
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 4:47:35 PM	66414
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2022 4:47:35 PM	66414
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	3/29/2022 4:47:35 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP22-2
Project: Robinson B Federal 1
Collection Date: 3/24/2022 8:40:00 AM
Lab ID: 2203D57-008 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/1/2022 12:16:05 AM	66549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/30/2022 7:20:02 PM	66474
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/30/2022 7:20:02 PM	66474
Surr: DNOP	125	51.1-141		%Rec	1	3/30/2022 7:20:02 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 5:11:10 PM	66414
Surr: BFB	96.9	37.7-212		%Rec	1	3/29/2022 5:11:10 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/29/2022 5:11:10 PM	66414
Toluene	ND	0.049		mg/Kg	1	3/29/2022 5:11:10 PM	66414
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 5:11:10 PM	66414
Xylenes, Total	ND	0.097		mg/Kg	1	3/29/2022 5:11:10 PM	66414
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	3/29/2022 5:11:10 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP23-S
Project: Robinson B Federal 1
Collection Date: 3/24/2022 8:50:00 AM
Lab ID: 2203D57-009 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/1/2022 12:28:26 AM	66549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/30/2022 7:44:22 PM	66474
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/30/2022 7:44:22 PM	66474
Surr: DNOP	80.7	51.1-141		%Rec	1	3/30/2022 7:44:22 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2022 5:34:34 PM	66414
Surr: BFB	96.6	37.7-212		%Rec	1	3/29/2022 5:34:34 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/29/2022 5:34:34 PM	66414
Toluene	ND	0.049		mg/Kg	1	3/29/2022 5:34:34 PM	66414
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2022 5:34:34 PM	66414
Xylenes, Total	ND	0.098		mg/Kg	1	3/29/2022 5:34:34 PM	66414
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	3/29/2022 5:34:34 PM	66414

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

Qualifiers:

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

Analytical Report
Lab Order **2203D57**
Date Reported: **4/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP23-2
Project: Robinson B Federal 1
Collection Date: 3/24/2022 9:00:00 AM
Lab ID: 2203D57-010 **Matrix:** SOIL **Received Date:** 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/1/2022 12:40:46 AM	66549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/30/2022 8:08:41 PM	66474
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/30/2022 8:08:41 PM	66474
Surr: DNOP	112	51.1-141		%Rec	1	3/30/2022 8:08:41 PM	66474
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/29/2022 5:57:58 PM	66414
Surr: BFB	99.3	37.7-212		%Rec	1	3/29/2022 5:57:58 PM	66414
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	3/29/2022 5:57:58 PM	66414
Toluene	ND	0.046		mg/Kg	1	3/29/2022 5:57:58 PM	66414
Ethylbenzene	ND	0.046		mg/Kg	1	3/29/2022 5:57:58 PM	66414
Xylenes, Total	ND	0.093		mg/Kg	1	3/29/2022 5:57:58 PM	66414
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	3/29/2022 5:57:58 PM	66414

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D57**

05-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **MB-66549**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66549**	RunNo: **86884**							
Prep Date: **3/31/2022**	Analysis Date: **3/31/2022**	SeqNo: **3070434**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66549**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66549**	RunNo: **86884**							
Prep Date: **3/31/2022**	Analysis Date: **3/31/2022**	SeqNo: **3070435**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Sample ID: **LCS-66531**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66531**	RunNo: **86885**							
Prep Date: **3/31/2022**	Analysis Date: **3/31/2022**	SeqNo: **3070544**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D57**
05-Apr-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **LCS-66474**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **66474**	RunNo: **86875**							
Prep Date: **3/29/2022**	Analysis Date: **3/30/2022**	SeqNo: **3069217**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.9	68.9	135			
Surr: DNOP	4.1		5.000		81.3	51.1	141			

Sample ID: **MB-66474**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **66474**	RunNo: **86875**							
Prep Date: **3/29/2022**	Analysis Date: **3/30/2022**	SeqNo: **3069218**	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	9.7		10.00		97.2	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D57**

05-Apr-22

Client: GHD Midland

Project: Robinson B Federal 1

Sample ID: **mb-66414**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66414**	RunNo: **86824**							
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066190**	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	990		1000		99.4	37.7	212			

Sample ID: **lcs-66414**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **66414**	RunNo: **86824**							
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066191**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2000		1000		204	37.7	212			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203D57**
05-Apr-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: **mb-66414**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **66414**	RunNo: **86824**							
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066238**	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	0.99		1.000		98.8	70	130			

Sample ID: **LCS-66414**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **66414**	RunNo: **86824**							
Prep Date: **3/25/2022**	Analysis Date: **3/29/2022**	SeqNo: **3066239**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.2	80	120			
Toluene	0.84	0.050	1.000	0	84.1	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.1	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.3	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Number: 2203D57 | RcptNo: 1

Received By: Cheyenne Cason 3/25/2022 7:23:00 AM

Completed By: Desiree Dominguez 3/25/2022 8:19:23 AM

Reviewed By: SCC 3/25/22

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	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH:
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	(<2 or >12 unless noted) Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JM 3/25/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good				
2	1.6	Good				
3	2.8	Good				

Chain-of-Custody Record

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 ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 5-dy

Project Name: Robinson B Federal #1

Project #: 12574110

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): see Bench

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203D57
03/24/22	0730	S	TP19-S	Jar		-001
	0735		TP19-2			-002
	0750		TP20-S			-003
	0755		TP20-2			-004
	0810		TP21-S			-005
	0820		TP21-2			-006
	0830		TP22-S			-007
	0840		TP22-2			-008
	0850		TP23-S			-009
	0900		TP23-2			-010

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	~~Chloride~~ Method 300
X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
03/24/22	1300	Zach Comino			3/24/22	1300
3/24/22	1900					

Received by: Via: Date Time
One Call 3/25/22 0723

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com
2.9-0=2.9
1.6-0=1.6
Matthew.Laughlin@ghd.com;
Amber_Griffin@eogresources.com: Along with Becky Haskell listed above.
2.8-0=2.8
~~Direct Bill to EOG Chase Settle~~

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 12, 2022

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

RE: Robinson B Federal OrderNo.: 2204D47

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 13 sample(s) on 4/30/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

CLIENT: GHD Midland
Project: Robinson B Federal
Lab ID: 2204D47-001 **Matrix:** SOIL

Client Sample ID: SB-1 (5')
Collection Date: 4/27/2022 10:30:00 AM
Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	5/4/2022 12:12:08 AM	67234
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	2300	200		mg/Kg	20	5/4/2022 11:06:59 AM	67221
Motor Oil Range Organics (MRO)	1300	1000		mg/Kg	20	5/4/2022 11:06:59 AM	67221
Surr: DNOP	0	51.1-141	S	%Rec	20	5/4/2022 11:06:59 AM	67221
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	660	50		mg/Kg	10	5/3/2022 9:33:00 PM	67192
Surr: BFB	313	37.7-212	S	%Rec	10	5/3/2022 9:33:00 PM	67192
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	1.4	0.25		mg/Kg	10	5/3/2022 9:33:00 PM	67192
Toluene	ND	0.50		mg/Kg	10	5/3/2022 9:33:00 PM	67192
Ethylbenzene	16	0.50		mg/Kg	10	5/3/2022 9:33:00 PM	67192
Xylenes, Total	9.5	1.0		mg/Kg	10	5/3/2022 9:33:00 PM	67192
Surr: 4-Bromofluorobenzene	151	70-130	S	%Rec	10	5/3/2022 9:33:00 PM	67192

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1 (10')
Project: Robinson B Federal
Collection Date: 4/27/2022 10:35:00 AM
Lab ID: 2204D47-002 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	ND	61		mg/Kg	20	5/4/2022 12:49:10 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	1000	94		mg/Kg	10	5/4/2022 11:36:25 AM	67221
Motor Oil Range Organics (MRO)	690	470		mg/Kg	10	5/4/2022 11:36:25 AM	67221
Surr: DNOP	0	51.1-141	S	%Rec	10	5/4/2022 11:36:25 AM	67221
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	120	23		mg/Kg	5	5/3/2022 9:53:00 PM	67192
Surr: BFB	304	37.7-212	S	%Rec	5	5/3/2022 9:53:00 PM	67192
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.12		mg/Kg	5	5/3/2022 9:53:00 PM	67192
Toluene	ND	0.23		mg/Kg	5	5/3/2022 9:53:00 PM	67192
Ethylbenzene	3.1	0.23		mg/Kg	5	5/3/2022 9:53:00 PM	67192
Xylenes, Total	3.5	0.47		mg/Kg	5	5/3/2022 9:53:00 PM	67192
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	5	5/3/2022 9:53:00 PM	67192

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1 (15')
Project: Robinson B Federal
Collection Date: 4/27/2022 10:40:00 AM
Lab ID: 2204D47-003 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	67	60		mg/Kg	20	5/4/2022 1:01:30 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	6500	200		mg/Kg	20	5/3/2022 7:32:10 PM	67221
Motor Oil Range Organics (MRO)	2400	990		mg/Kg	20	5/3/2022 7:32:10 PM	67221
Surr: DNOP	0	51.1-141	S	%Rec	20	5/3/2022 7:32:10 PM	67221
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	2200	98		mg/Kg	20	5/3/2022 11:41:00 AM	67192
Surr: BFB	343	37.7-212	S	%Rec	20	5/3/2022 11:41:00 AM	67192
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	19	0.49		mg/Kg	20	5/4/2022 11:01:00 PM	67192
Toluene	73	0.98		mg/Kg	20	5/4/2022 11:01:00 PM	67192
Ethylbenzene	79	0.98		mg/Kg	20	5/4/2022 11:01:00 PM	67192
Xylenes, Total	95	2.0		mg/Kg	20	5/4/2022 11:01:00 PM	67192
Surr: 4-Bromofluorobenzene	171	70-130	S	%Rec	20	5/4/2022 11:01:00 PM	67192

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1 (20')
Project: Robinson B Federal
Collection Date: 4/27/2022 10:45:00 AM
Lab ID: 2204D47-004 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	140	60		mg/Kg	20	5/4/2022 1:13:52 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	1000	49		mg/Kg	5	5/10/2022 1:09:48 PM	67221
Motor Oil Range Organics (MRO)	410	240		mg/Kg	5	5/10/2022 1:09:48 PM	67221
Surr: DNOP	101	51.1-141		%Rec	5	5/10/2022 1:09:48 PM	67221
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	110	25		mg/Kg	5	5/3/2022 12:01:00 PM	67192
Surr: BFB	256	37.7-212	S	%Rec	5	5/3/2022 12:01:00 PM	67192
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.12		mg/Kg	5	5/4/2022 11:21:00 PM	67192
Toluene	0.53	0.25		mg/Kg	5	5/4/2022 11:21:00 PM	67192
Ethylbenzene	2.8	0.25		mg/Kg	5	5/4/2022 11:21:00 PM	67192
Xylenes, Total	3.6	0.50		mg/Kg	5	5/4/2022 11:21:00 PM	67192
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	5	5/4/2022 11:21:00 PM	67192

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1 (25')
Project: Robinson B Federal
Collection Date: 4/27/2022 10:55:00 AM
Lab ID: 2204D47-005 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	230	60		mg/Kg	20	5/4/2022 1:26:12 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/3/2022 2:22:23 PM	67217
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/3/2022 2:22:23 PM	67217
Surr: DNOP	82.6	51.1-141		%Rec	1	5/3/2022 2:22:23 PM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	5/3/2022 12:44:05 PM	67198
Surr: BFB	109	37.7-212		%Rec	5	5/3/2022 12:44:05 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.12		mg/Kg	5	5/3/2022 12:44:05 PM	67198
Toluene	ND	0.25		mg/Kg	5	5/3/2022 12:44:05 PM	67198
Ethylbenzene	ND	0.25		mg/Kg	5	5/3/2022 12:44:05 PM	67198
Xylenes, Total	ND	0.49		mg/Kg	5	5/3/2022 12:44:05 PM	67198
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	5/3/2022 12:44:05 PM	67198

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1 (30')
Project: Robinson B Federal
Collection Date: 4/27/2022 11:05:00 AM
Lab ID: 2204D47-006 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	150	60		mg/Kg	20	5/4/2022 1:38:34 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/3/2022 2:46:13 PM	67217
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/3/2022 2:46:13 PM	67217
Surr: DNOP	85.2	51.1-141		%Rec	1	5/3/2022 2:46:13 PM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/3/2022 1:54:23 PM	67198
Surr: BFB	110	37.7-212		%Rec	1	5/3/2022 1:54:23 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	5/3/2022 1:54:23 PM	67198
Toluene	ND	0.048		mg/Kg	1	5/3/2022 1:54:23 PM	67198
Ethylbenzene	ND	0.048		mg/Kg	1	5/3/2022 1:54:23 PM	67198
Xylenes, Total	ND	0.096		mg/Kg	1	5/3/2022 1:54:23 PM	67198
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/3/2022 1:54:23 PM	67198

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1 (35')
Project: Robinson B Federal
Collection Date: 4/27/2022 11:10:00 AM
Lab ID: 2204D47-007 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	5/4/2022 2:15:36 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/3/2022 3:10:13 PM	67217
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/3/2022 3:10:13 PM	67217
Surr: DNOP	88.9	51.1-141		%Rec	1	5/3/2022 3:10:13 PM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/3/2022 3:04:57 PM	67198
Surr: BFB	111	37.7-212		%Rec	1	5/3/2022 3:04:57 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/3/2022 3:04:57 PM	67198
Toluene	ND	0.048		mg/Kg	1	5/3/2022 3:04:57 PM	67198
Ethylbenzene	ND	0.048		mg/Kg	1	5/3/2022 3:04:57 PM	67198
Xylenes, Total	ND	0.096		mg/Kg	1	5/3/2022 3:04:57 PM	67198
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	5/3/2022 3:04:57 PM	67198

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2 (5')
Project: Robinson B Federal
Collection Date: 4/27/2022 11:30:00 AM
Lab ID: 2204D47-008 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	130	60		mg/Kg	20	5/4/2022 2:27:58 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/3/2022 3:34:06 PM	67217
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/3/2022 3:34:06 PM	67217
Surr: DNOP	92.1	51.1-141		%Rec	1	5/3/2022 3:34:06 PM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/3/2022 3:28:25 PM	67198
Surr: BFB	112	37.7-212		%Rec	1	5/3/2022 3:28:25 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	5/3/2022 3:28:25 PM	67198
Toluene	ND	0.048		mg/Kg	1	5/3/2022 3:28:25 PM	67198
Ethylbenzene	ND	0.048		mg/Kg	1	5/3/2022 3:28:25 PM	67198
Xylenes, Total	ND	0.095		mg/Kg	1	5/3/2022 3:28:25 PM	67198
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	5/3/2022 3:28:25 PM	67198

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2 (10')
Project: Robinson B Federal
Collection Date: 4/27/2022 11:40:00 AM
Lab ID: 2204D47-009 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	280	60		mg/Kg	20	5/4/2022 2:40:19 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/3/2022 3:57:57 PM	67217
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/3/2022 3:57:57 PM	67217
Surr: DNOP	88.5	51.1-141		%Rec	1	5/3/2022 3:57:57 PM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/3/2022 3:51:56 PM	67198
Surr: BFB	112	37.7-212		%Rec	1	5/3/2022 3:51:56 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	5/3/2022 3:51:56 PM	67198
Toluene	ND	0.049		mg/Kg	1	5/3/2022 3:51:56 PM	67198
Ethylbenzene	ND	0.049		mg/Kg	1	5/3/2022 3:51:56 PM	67198
Xylenes, Total	ND	0.099		mg/Kg	1	5/3/2022 3:51:56 PM	67198
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/3/2022 3:51:56 PM	67198

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2 (15')
Project: Robinson B Federal
Collection Date: 4/27/2022 11:45:00 AM
Lab ID: 2204D47-010 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	170	60		mg/Kg	20	5/4/2022 2:52:40 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/3/2022 4:21:50 PM	67217
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/3/2022 4:21:50 PM	67217
Surr: DNOP	81.2	51.1-141		%Rec	1	5/3/2022 4:21:50 PM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/3/2022 4:15:30 PM	67198
Surr: BFB	112	37.7-212		%Rec	1	5/3/2022 4:15:30 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	5/3/2022 4:15:30 PM	67198
Toluene	ND	0.048		mg/Kg	1	5/3/2022 4:15:30 PM	67198
Ethylbenzene	ND	0.048		mg/Kg	1	5/3/2022 4:15:30 PM	67198
Xylenes, Total	ND	0.096		mg/Kg	1	5/3/2022 4:15:30 PM	67198
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	5/3/2022 4:15:30 PM	67198

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

CLIENT: GHD Midland
Project: Robinson B Federal
Lab ID: 2204D47-011 **Matrix:** SOIL

Client Sample ID: SB-2 (20')
Collection Date: 4/27/2022 11:50:00 AM
Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	2800	150		mg/Kg	50	5/4/2022 6:51:59 PM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	210	9.3		mg/Kg	1	5/4/2022 10:40:08 AM	67217
Motor Oil Range Organics (MRO)	200	47		mg/Kg	1	5/4/2022 10:40:08 AM	67217
Surr: DNOP	94.9	51.1-141		%Rec	1	5/4/2022 10:40:08 AM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	5/3/2022 4:38:59 PM	67198
Surr: BFB	113	37.7-212		%Rec	5	5/3/2022 4:38:59 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	5/3/2022 4:38:59 PM	67198
Toluene	ND	0.23		mg/Kg	5	5/3/2022 4:38:59 PM	67198
Ethylbenzene	ND	0.23		mg/Kg	5	5/3/2022 4:38:59 PM	67198
Xylenes, Total	ND	0.47		mg/Kg	5	5/3/2022 4:38:59 PM	67198
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	5	5/3/2022 4:38:59 PM	67198

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2 (25')
Project: Robinson B Federal
Collection Date: 4/27/2022 12:05:00 PM
Lab ID: 2204D47-012 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	320	60		mg/Kg	20	5/4/2022 3:17:21 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	15	9.8		mg/Kg	1	5/3/2022 5:09:36 PM	67217
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/3/2022 5:09:36 PM	67217
Surr: DNOP	100	51.1-141		%Rec	1	5/3/2022 5:09:36 PM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/3/2022 6:12:54 PM	67198
Surr: BFB	98.8	37.7-212		%Rec	1	5/3/2022 6:12:54 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	5/3/2022 6:12:54 PM	67198
Toluene	ND	0.048		mg/Kg	1	5/3/2022 6:12:54 PM	67198
Ethylbenzene	ND	0.048		mg/Kg	1	5/3/2022 6:12:54 PM	67198
Xylenes, Total	ND	0.096		mg/Kg	1	5/3/2022 6:12:54 PM	67198
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	5/3/2022 6:12:54 PM	67198

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

Qualifiers:

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

Analytical Report
Lab Order **2204D47**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2 (30')
Project: Robinson B Federal
Collection Date: 4/27/2022 12:10:00 PM
Lab ID: 2204D47-013 **Matrix:** SOIL **Received Date:** 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	61		mg/Kg	20	5/4/2022 3:29:42 AM	67235
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/3/2022 5:33:29 PM	67217
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/3/2022 5:33:29 PM	67217
Surr: DNOP	99.0	51.1-141		%Rec	1	5/3/2022 5:33:29 PM	67217
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/3/2022 6:36:22 PM	67198
Surr: BFB	107	37.7-212		%Rec	1	5/3/2022 6:36:22 PM	67198
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/3/2022 6:36:22 PM	67198
Toluene	ND	0.048		mg/Kg	1	5/3/2022 6:36:22 PM	67198
Ethylbenzene	ND	0.048		mg/Kg	1	5/3/2022 6:36:22 PM	67198
Xylenes, Total	ND	0.096		mg/Kg	1	5/3/2022 6:36:22 PM	67198
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	5/3/2022 6:36:22 PM	67198

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D47**

12-May-22

Client: GHD Midland

Project: Robinson B Federal

Sample ID:	**MB-67234**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**67234**	RunNo:	**87695**					
Prep Date:	**5/3/2022**	Analysis Date:	**5/3/2022**	SeqNo:	**3106818**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-67234**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**67234**	RunNo:	**87695**					
Prep Date:	**5/3/2022**	Analysis Date:	**5/3/2022**	SeqNo:	**3106819**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Sample ID:	**MB-67235**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**67235**	RunNo:	**87695**					
Prep Date:	**5/3/2022**	Analysis Date:	**5/4/2022**	SeqNo:	**3106851**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-67235**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**67235**	RunNo:	**87695**					
Prep Date:	**5/3/2022**	Analysis Date:	**5/4/2022**	SeqNo:	**3106852**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D47**

12-May-22

Client: GHD Midland

Project: Robinson B Federal

Sample ID: **MB-67217**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67217**	RunNo: **87671**
Prep Date: **5/3/2022**	Analysis Date: **5/3/2022**	SeqNo: **3104862** 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	5.3		10.00		52.7	51.1	141			

Sample ID: **LCS-67217**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67217**	RunNo: **87694**
Prep Date: **5/3/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105649** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.8	68.9	135			
Surr: DNOP	3.8		5.000		75.1	51.1	141			

Sample ID: **LCS-67221**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67221**	RunNo: **87713**
Prep Date: **5/3/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105915** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.3	68.9	135			
Surr: DNOP	4.6		5.000		92.5	51.1	141			

Sample ID: **MB-67221**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67221**	RunNo: **87713**
Prep Date: **5/3/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105920** 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	9.7		10.00		97.3	51.1	141			

Sample ID: **MB-67314**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67314**	RunNo: **87864**
Prep Date: **5/6/2022**	Analysis Date: **5/10/2022**	SeqNo: **3116791** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D47**

12-May-22

Client: GHD Midland

Project: Robinson B Federal

Sample ID: **LCS-67314**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67314**	RunNo: **87864**
Prep Date: **5/6/2022**	Analysis Date: **5/10/2022**	SeqNo: **3116792** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.0	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D47**

12-May-22

Client: GHD Midland

Project: Robinson B Federal

Sample ID: **mb-67198**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **67198**	RunNo: **87675**							
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105102**	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	1100		1000		106	37.7	212			

Sample ID: **lcs-67198**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **67198**	RunNo: **87675**							
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105103**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	72.3	137			
Surr: BFB	2300		1000		229	37.7	212			S

Sample ID: **2204d47-005ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SB-1 (25')**	Batch ID: **67198**	RunNo: **87675**							
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105105**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	25	24.98	0	104	70	130			
Surr: BFB	6600		4995		133	37.7	212			

Sample ID: **2204d47-005amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SB-1 (25')**	Batch ID: **67198**	RunNo: **87675**							
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105106**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	25	25.00	0	103	70	130	0.480	20	
Surr: BFB	6500		5000		130	37.7	212	0	0	

Sample ID: **lcs-67192**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **67192**	RunNo: **87706**							
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105549**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	2200		1000		224	37.7	212			S

Sample ID: **mb-67192**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **67192**	RunNo: **87706**							
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105550**	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D47**

12-May-22

Client: GHD Midland

Project: Robinson B Federal

Sample ID: **mb-67192**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67192**	RunNo: **87706**
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105550** 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		99.8	37.7	212			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D47**

12-May-22

Client: GHD Midland

Project: Robinson B Federal

Sample ID: **mb-67198**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67198**	RunNo: **87675**
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105148** 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	1.1		1.000		107	70	130			

Sample ID: **LCS-67198**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67198**	RunNo: **87675**
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105149** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.98	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: **2204d47-006ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-1 (30')**	Batch ID: **67198**	RunNo: **87675**
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105152** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9843	0	99.5	68.8	120			
Toluene	1.0	0.049	0.9843	0	105	73.6	124			
Ethylbenzene	1.1	0.049	0.9843	0	108	72.7	129			
Xylenes, Total	3.2	0.098	2.953	0	108	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9843		108	70	130			

Sample ID: **2204d47-006amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-1 (30')**	Batch ID: **67198**	RunNo: **87675**
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105153** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9823	0	98.2	68.8	120	1.49	20	
Toluene	1.0	0.049	0.9823	0	104	73.6	124	1.02	20	
Ethylbenzene	1.1	0.049	0.9823	0	107	72.7	129	1.05	20	
Xylenes, Total	3.2	0.098	2.947	0	107	75.7	126	1.37	20	
Surr: 4-Bromofluorobenzene	1.1		0.9823		108	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D47**

12-May-22

Client: GHD Midland

Project: Robinson B Federal

Sample ID: **lcs-67192**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67192**	RunNo: **87721**
Prep Date: **5/2/2022**	Analysis Date: **5/4/2022**	SeqNo: **3107578** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.90	0.050	1.000	0	89.5	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.9	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.6	70	130			

Sample ID: **mb-67192**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67192**	RunNo: **87721**
Prep Date: **5/2/2022**	Analysis Date: **5/4/2022**	SeqNo: **3107579** 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	0.80		1.000		80.1	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2204D47 | RcptNo: 1

Received By: Juan Rojas 4/30/2022 8:30:00 AM

Completed By: Juan Rojas 4/30/2022 9:41:48 AM

Reviewed By: KPG 5-2-22

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JM 4/30/22

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: Sample 002, Have water in them - KPG 5-2-22

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 48 Hour

Project Name: Robinson B- Federal

Project #: 12574110-03

Project Manager: Becky.Haskell@ghd.com

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.2-0.1=0.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204047	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/27	1030	S	SB-1 (5')			-001	X	X					X			
	1035		SB-1 (10')			-002										
	1040		SB-1 (15')			-003										
	1045		SB-1 (20')			-004										
	1055		SB-1 (25')			-005										
	1105		SB-1 (30')			-006										
	1110		SB-1 (35')			-007										
	1130		SB-2 (5')			-008										
	1140		SB-2 (10')			-009										
	1145		SB-2 (15')			-010										
	1150		SB-2 (20')			-011										
	1205	N	SB-2 (25')			-012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/29	1130				4/29/22	1130
4/29/22	1900			Courier	4/30/22	8:30

Remarks:

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.

Chain-of-Custody Record

Client: GHD

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 48 Hour

Project Name: Robinson B Federal

Project #: 12574110-03

Project Manager: Becky.Haskell@ghd.com

Sampler:
On Ice: ☐ ~~Yes~~ ☐ No
# of Coolers: 1
Cooler Temp(including CF): 0.2-0.1=0.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204047	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/27	1210	S	SB-2 (30')				X	X					X			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/29	1130				4/29/22	1130
4/29/22	1900		courier		4/30/22	8:30

Remarks:

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.

Attachment C
Soil Boring Logs

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Robinson B Federal #1
HOLE DESIGNATION: SB-1
PROJECT NUMBER: 12574110
DATE COMPLETED: 27 April 2022
CLIENT: EOG Resources
DRILLING METHOD: Air Rotary/Split Spoons and Cuttings
LOCATION: Eddy County, New Mexico
FIELD PERSONNEL: L. Mullins
DRILLING CONTRACTOR: HCI Drilling
DRILLER: K. Cooper

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
2	SP-SAND, fine to medium grained sand, light brown to brown, dry							
4	- black, very moist, odor at 3.00ft BGS			5'			<60	4260
6	- with clay, light brown at 5.00ft BGS							
8								
10				10'			<61	1810
12								
14	CL-SANDY CLAY, brown to dark brown, moist, odor	13.00		15'			67	11100
16								
18			Cement					
20				20'			140	3810
22								
24				25'			230	<49
26								
28	SP-SAND, fine to medium grained sand, light brown to red, dry	28.00						
30				30'			150	<50
32								
34				35'			<60	<47
36	END OF BOREHOLE @ 35.00ft BGS	35.00						
38								
40								
42								
44								
46								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (5')

File: \\GHDNET\GHD\US\MIDLAND\PROJECTS\562\12574110\TECH\GINT LOGS\12574110 LOGS.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 8/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Robinson B Federal #1
PROJECT NUMBER: 12574110
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: HCI Drilling

HOLE DESIGNATION: SB-2
DATE COMPLETED: 27 April 2022
DRILLING METHOD: Air Rotary/Split Spoons and Cuttings
FIELD PERSONNEL: L. Mullins
DRILLER: K. Cooper

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
0	SP-SAND, light brown to brown, dry							
5'				5'		100	130	<48
10'	- with clay, reddish light brown at 9.00ft BGS			10'		100	280	<47
15'	- light brown to brown at 13.00ft BGS			15'		100	170	<50
	CL-SANDY CLAY, brown to red, dry	15.00	Cement					
20'				20'		100	3000	410
25'				25'		100	1700	15
	SP-SAND, fine to medium grained sand, light brown to red, dry	28.00						
30'				30'		100	<61	<50
	END OF BOREHOLE @ 30.00ft BGS	30.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: \\GHDNET\GHD\US\MIDLAND\PROJECTS\562\12574110\TECH\GINT LOGS\12574110 LOGS.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 8/6/22

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 131737

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 131737
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	9/20/2022