

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)

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

Cause of Release 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.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
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: <u>Chase Settle</u> Title: <u>Rep Safety & Environmental Sr</u> Signature: <u>Chase Settle</u> Date: <u>02/01/2022</u> email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-1471</u>
<u>OCD Only</u> Received by: _____ Date: _____

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Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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Incident ID	nAPP2202759509
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

Signature: *Chase Settle* Date: 4/20/2022

email: Chase Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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

Our ref: 12574110

April 19, 2022

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

Re: **Site Characterization and Delineation Work Plan
Robinson B Federal #1
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 Site Characterization and Delineation 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 (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 release was discovered on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2, 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 and, Site Assessment/Characterization 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 three hundred (300) feet of a significant watercourse. Additionally, the Site is located within three hundred 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) below ground surface. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
300 Feet from a Significant Watercourse	Unknown, Treated as <50 ft.

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

Constituent	Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	Not Applicable
Benzene	10 mg/kg
BTEX	50 mg/kg

4. Initial 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 bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

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, 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.

5. nAPP2115335335 Proposed Work Plan

Test pits TP5, TP7, TP8, TP9, TP10, TP11, TP12, TP14, TP15, & TP17 were vertically delineated during the initial sampling events while test pits TP1, TP2, TP3 were not. Test pits TP1, TP2, TP3 exhibited Total TPH and/or chloride concentrations above Table 1 closure criteria to a depth of nineteen (19) feet below ground surface for TP1 and TP3 and twenty (20) feet below ground surface for TP2. For



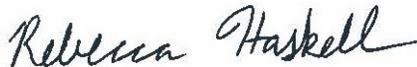
completion of vertical delineation of Total TPH and chloride impacts, GHD and a drilling contractor will install two (2) borings strategically positioned between the areas that could not be vertically delineated. During boring installation, samples will be obtained every five (5) to ten (10) feet starting at five (5) feet below ground surface until field screening and observations indicate the borings are delineated. Select soil samples will be analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. The proposed soil boring locations are depicted on Figure 2, Site Assessment: Soil Analytical Results Map.

Once analytical results are obtained from the laboratory they will be evaluated, and a remediation work plan will be prepared and submitted to the NMOCD for evaluation within 90 days.

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

Sincerely,

GHD



Becky Haskell
Senior Project Manager



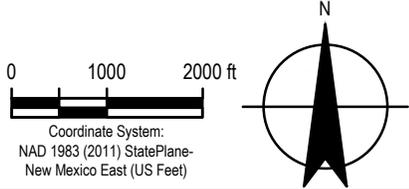
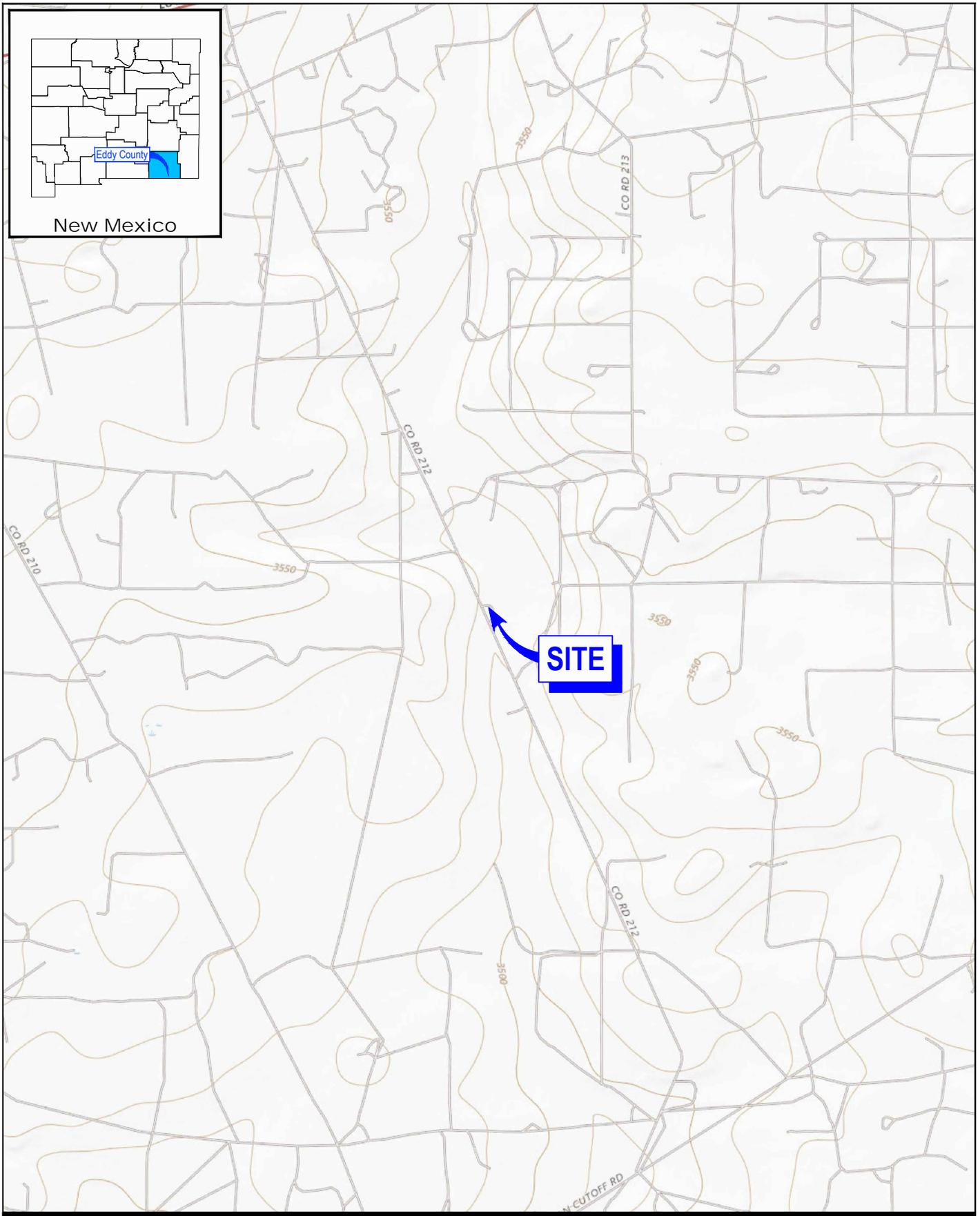
Zach H. Comino
Field Geologist

BH/ZC/1

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

cc: Chase Settle

Figures



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



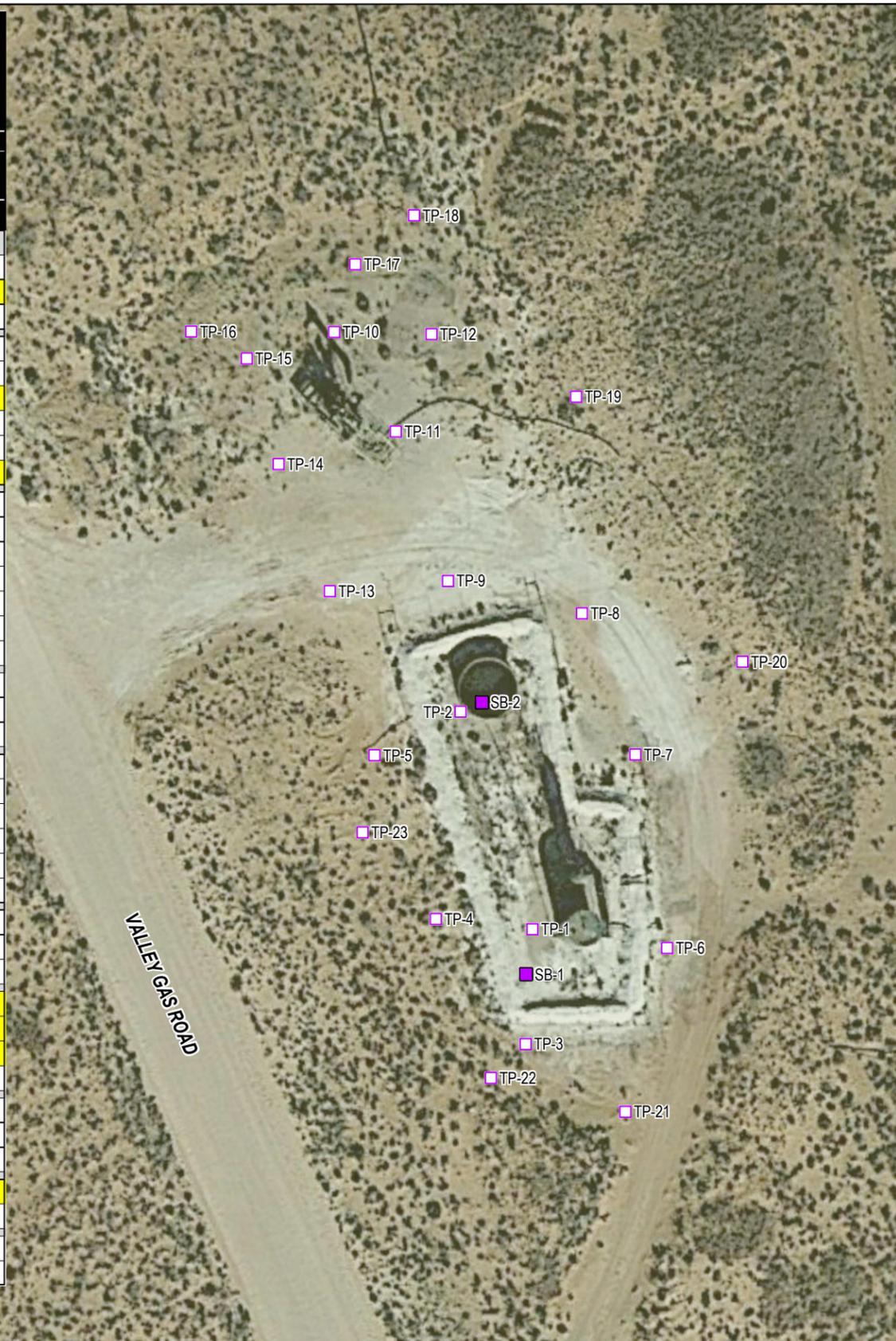
EOG RESOURCES
EDDY COUNTY, NEW MEXICO
ROBINSON B FEDERAL #1

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

SITE LOCATION MAP

FIGURE 1

Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	Total GRO/DRO/MRO	
					(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

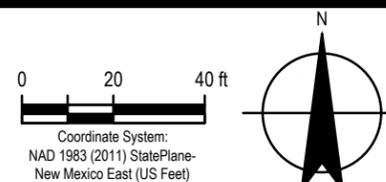


Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	Total GRO/DRO/MRO	
					(mg/kg)	
					Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC	
10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg			
Initial Assessment Samples						
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
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

LEGEND

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



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

**SITE ASSESSMENT:
 SOIL ANALYTICAL RESULTS MAP**

Project No. 12574110
 Date April 2022

FIGURE 2

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	Total Petroleum Hydrocarbons (TPH)				Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(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	Total Petroleum Hydrocarbons (TPH)				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
								(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Table 1 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	Total Petroleum Hydrocarbons (TPH)				Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table 1 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

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 Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. --- = not defined

B-BH-2 Sample Point Excavated

Attachment A

Site Characterization Documentation

Robinson B Federal #1

Karst Potential Map

Legend

-  High
-  Low
-  Medium
-  Robinson B Federal 1



Robinson B Federal 1

Loco Hills

82

82

360

360



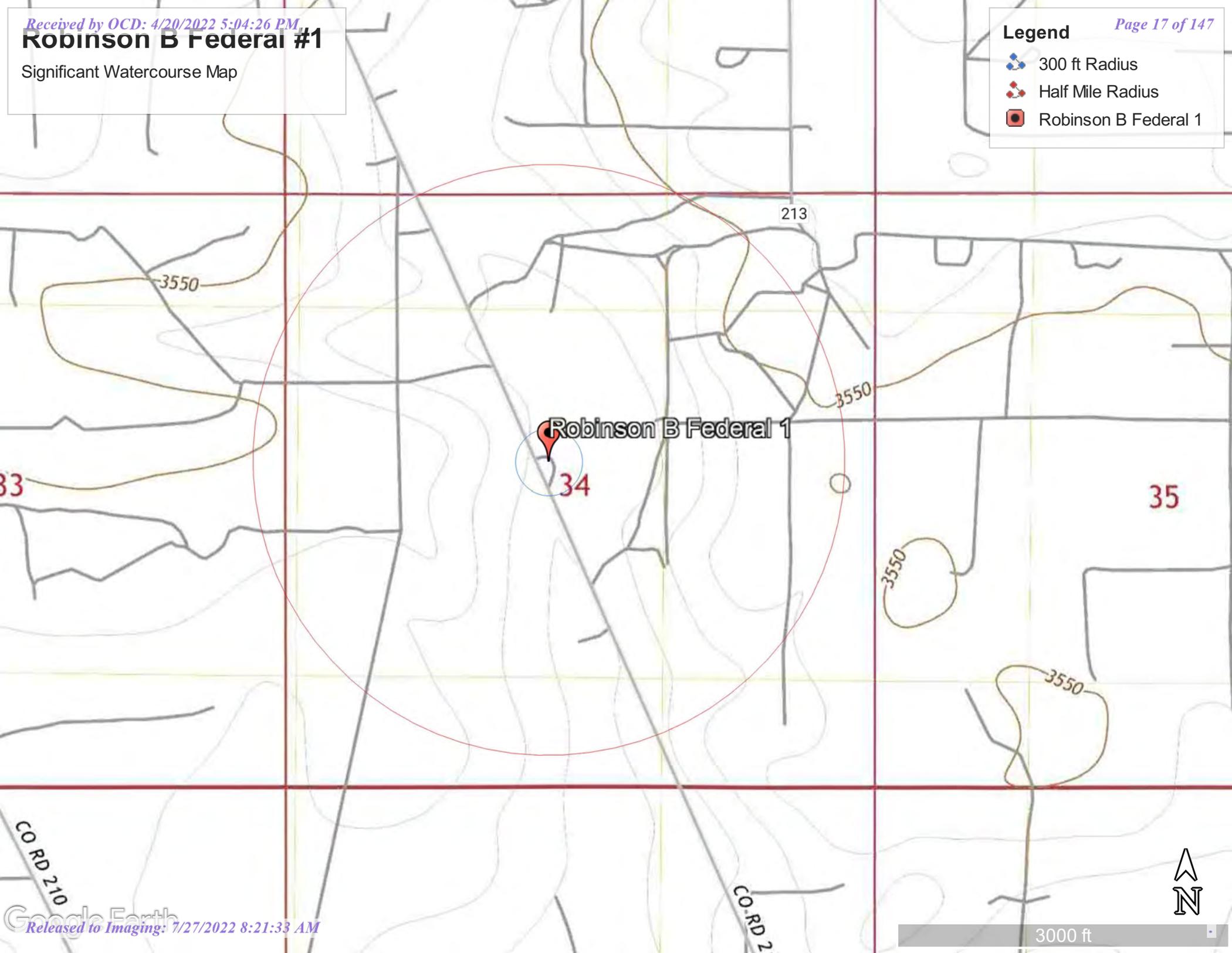
6 mi

Robinson B Federal #1

Significant Watercourse Map

Legend

-  300 ft Radius
-  Half Mile Radius
-  Robinson B Federal 1



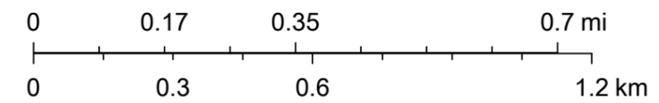
OSE POD Locations Map



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



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



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 Flood Hazard Layer FIRMMette



104°4'8"W 32°47'45"N



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**
 - Cross Sections with 1% Annual Chance 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
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

Attachment B

Laboratory Analytical Reports and Chain-of-Custody Documentation



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

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,

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

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.	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 Quantitative 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: 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.	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 Quantitative 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: 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 Quantitative 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 Quantitative 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.	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 Quantitative 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: TP2-10

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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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.	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 Quantitative 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: TP4-12

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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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: ics	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: ics	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: ics	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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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

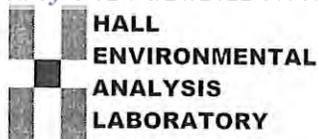
Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: ics-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 Quantitative 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
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

Handwritten signature

Completed By: Sean Livingston

2/23/2022 8:18:46 AM

Handwritten signature

Reviewed By: JO

2/23/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: KPA 2/23/22

Special Handling (if applicable)

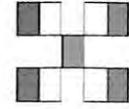
- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date:
By Whom: Via: [] eMail [] Phone [] Fax [] In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

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 Other
 NELAC Other
 EDD (Type)

Turn-Around Time:
 Standard Rush Day
 Project Name:
 Robinson B Federal #1
 Project #:
 12574110
 Project Manager:
 Becky Haskell
 Tom Larson
 Sampler: Heath Boyd
 On Ice: Yes No
 # of Coolers: 2 6-7-0-67 Cmc
 Cooler Temp (including CP): 6-3-0-63 Cmc 2/23/22

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/17	935	S	TP1-4	4oz Jar/1	N/A	2202A39
	945		TP1-12			001
	955		TP1-19			002
	1045		TP2-2			003
	1050		TP2-8			004
	1055		TP2-10			005
	1230		TP3-5			006
	1235		TP3-2			007
	1240		TP3-4			008
	1320		TP4-4			009
	1325		TP4-12			010
X	1330	X	TP4-16	X	X	011
						012

Date: 2/17/22 Time: 1730
 Relinquished by: *[Signature]*
 Date: 2/22/22 Time: 1900
 Relinquished by: *[Signature]*

Analysis Request

BTEX / MTBE / TMBs (8021)	Y
TPH:8015D(GRO / DRO / MRO)	Y
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	Y

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.
 1.0-021.0
 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
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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2202945**

Date Reported: **3/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP7-5

Project: Robinson B Federal 1

Collection Date: 2/18/2022 8:55:00 AM

Lab ID: 2202945-001

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	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.	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 Quantitative 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: 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.	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 Quantitative 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: 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 Quantitative 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 Quantitative 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 Quantitative 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.	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 Quantitative 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: TP9-2

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 Quantitative 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.	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 Quantitative 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: TP10-2

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 Quantitative 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: TP11-5

Project: Robinson B Federal 1

Collection Date: 2/18/2022 10:00:00 AM

Lab ID: 2202945-010

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 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.	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 Quantitative 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: TP11-2

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 Quantitative 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.	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 Quantitative 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: TP12-5

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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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: ics	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: ics	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 Quantitative 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 Quantitative 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: ics-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: ics-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 Quantitative 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: Ics-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 Quantitative 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 Quantitative 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 Quantitative 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
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: KPG 2/19/22

Juan Rojas signature

Kasandra Payan signature

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: Jn 2/19/22

Special Handling (if applicable)

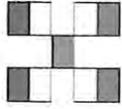
- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: _____ Date: _____
By Whom: _____ Via: [] eMail [] Phone [] Fax [] In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

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 #:
17574110

Project Manager:
 Becky Haskell
 Tom Larson
 Sampler: Heath Boyd
 On Ice: Yes No
 # of Coolers: 2
 Cooler Temp (including CF): 1.8-0.1-1.7

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/18/22	855	S	TP7-S	4oz. Seal / 1	N/A	220Z945
	900		TP7-2			001
	905		TP7-4			002
	915		TP8-2			003
	920		TP8-4			004
	925		TP9-S			005
	935		TP9-2			006
	940		TP10-S			007
	955		TP10-2			008
	1000		TP11-3			009
	1020		TP11-2			010
X	1025	X	TP11-4	X	X	012

Relinquished by: [Signature] Date: 2/18/22 Time: 1500
 Relinquished by: [Signature] Date: 2/19/22 Time: 8:20

Analysis Request

BTEX / MTBE / TMS (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Chloride 300 M
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X

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
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,

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

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 Quantitative 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 Quantitative 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 Quantitative 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.	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 Quantitative 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: TP14-2

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.	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 Quantitative 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: TP14-4

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 Quantitative 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.	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 Quantitative 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: TP15-4

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 Quantitative 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 Quantitative 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 Quantitative 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: ics	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: ics	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 Quantitative 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 Quantitative 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: ics-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 Quantitative 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. | 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 Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |



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: IO 2/23/22

Handwritten signatures: Cason, Sean Livingston

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

Person Notified: Date:
By Whom: Via: [] eMail [] Phone [] Fax [] In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

Chain-of-Custody Record

Client: GHD

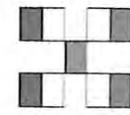
Mailing Address:
 2135 S. Loop 250 W. Midland, TX 79703
 Phone #: (432) 686-0086
 email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 EDD (Type)

Date	Time	Matrix	Sample Name
2/21/22	900	S	TP13-S
1	905		TP13-2
1	910		TP13-4
1	930		TP14-S
1	935		TP14-2
1	940		TP14-4
1	1020		TP15-3
1	1025		TP15-4
1	1030		TP15-8
1	1035	X	TP15-12

Date: 2/21/22 Time: 1600 Relinquished by: *BS*

Date: 2/22/22 Time: 1900 Relinquished by: *Chase*



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Analysis Request	Response
BTEX / MTBE / TMBs (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCBs	
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	

Turn-Around Time: Standard Rush *5 Day*

Project Name: *Robinson B Federal #1*

Project #: *12574110*

Project Manager: *Becky Haskell*

Sampler: *Heath Boyd*

On Ice: Yes No

of Coolers: *2* *6.7-0-16.7 CWC*

Cooler Temp (including CF): *6.7-0-16.7 CWC*

Container Type and # *2oz. Jar / 1* Preservative Type *N/A* HEAL No. *2202ASO*

Received by: *Chase* Date: *2/23/22* Time: *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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 06, 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.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

Hall Environmental Analysis Laboratory, Inc.

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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	66.0	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2203D53

Date Reported: 4/6/2022

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	PQL	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order 2203D53

Date Reported: 4/6/2022

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	PQL	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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	93.4	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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	98.6	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2203D53**

Date Reported: **4/6/2022**

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	PQL	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 Quantitative 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

06-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: ics	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: ics	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: ics	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 Quantitative 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

06-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-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			

Qualifiers:

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

06-Apr-22

Client: GHD Midland
Project: Robinson B Federal 1

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			

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	

Qualifiers:

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

06-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: 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

Qualifiers:

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

06-Apr-22

Client: GHD Midland
Project: Robinson B Federal 1

Sample ID: Ics-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	

Qualifiers:

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

06-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 Quantitative 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

06-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: 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.	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 Quantitative 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

06-Apr-22

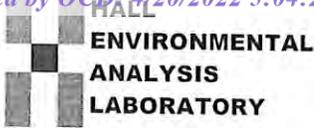
Client: GHD Midland
Project: Robinson B Federal 1

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	

Qualifiers:

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

Handwritten signature

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

Handwritten signature

Reviewed By: SW 3/25/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Client

Log In

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

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: SW 3/25/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 3 rows of data.

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 Other
 NELAC Other
 EDD (Type)

Turn-Around Time: 24 hr incl. on TP3-19 & TP2-20

Standard Rush 5.edy

Project Name:
Robinson B Federal #1

Project #:
12574110

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: Yes No

of Coolers: 3 2.9-0=2.9

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

Container Type and #
2.8-0=2.8
HEAL No.
2203053

Date	Time	Matrix	Sample Name
03/22	0745	S	TP3-8
0755			TP3-12
0810			TP3-16
0835			TP3-19
0900			TP5-8
0905			TP5-12
0945			TP2-14
0955			TP2-16
1015			TP2-20
1035			TP7-6
1045			TP7-8
1100			TP1-8

Date: 03/24/22 Time: 0800 Relinquished by: Zach Comino

Date: 3/24/22 Time: 1900 Relinquished by: Becky Haskell



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Analysis Request	Result
BTX / MTBE / TMB's (6021)	8
TPH:8015D(GRO / DRO / MRO)	8
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	
1119 Samples	
24 hr Rush	

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.

Received by: Becky Haskell Date: 3/24/22 Time: 800

Received by: Becky Haskell Date: 3/25/22 Time: 0723

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 #:

12574110

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: Yes No

of Coolers: 3

Cooler Temp (including CF): See last page

Container Type and #

Preservative Type

HEAL No.

220353

014

015

016

017

018

019

020

021

022

023

024

Received by: Via: Date Time

3/24/22 800

Received by: Via: Date Time

01900

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
03/23/22	1100	S	TP11-10	Ice		220353
	1130		TP12-8			014
	1140		TP12-12			015
	1145		TP12-14			016
	1320		TP15-14			017
	1330		TP15-16			018
	1340		TP16-8			019
	1350		TP16-2			020
	1400		TP17-2			021
	1410		TP17-4			022
	1420		TP17-8			023
	1430		TP17-10			024

2023

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request	
PFH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCBs	
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

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
Any sub-contracted data will be clearly notated on the analytical report.



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,

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

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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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: ics	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: ics	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 Quantitative 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: 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 Quantitative 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: ics-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 Quantitative 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

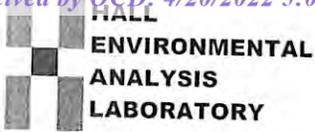
Client: GHD Midland
Project: Robinson B Federal 1

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 Quantitative 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
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

Handwritten signature

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

Handwritten signature

Reviewed By: JCN 3/25/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JCN 3/25/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 6 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1-3.

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

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

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

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

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

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

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 100391

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 100391
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The release will need to be remediated to the strictest closure criteria standards due to being in a flood plain area. Please collect confirmation samples (floor/sidewall), representing no more than 200 ft2. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor samples must be excavated to the strictest closure criteria. Please, makes sure test pits TP1, TP2, and TP3 are vertically delineated. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. A remediation plan was due for this incident on 4/26/2022. Have the remediation plan loaded to the payment portal by no later than August 27th, 2022.	7/27/2022