

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	nAPP2115335335
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 # (assigned by OCD) nAPP2115335335
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.72104 Longitude -104.43326
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Hornbaker BA Battery	Site Type Battery
Date Release Discovered 05/25/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	25	18S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Hornbaker Estate)

Nature and Volume of Release

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

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

Cause of Release Historical impacts discovered during the P&A of the battery. Release volume and date are unknown.

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

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <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></u>	Date: <u>6/2/2021</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?	>107 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☒ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☒ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

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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: 03/15/2022
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 03/15/2022
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Chad Hensley Date: 04/12/2022

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

Signature: Chad Hensley Date: 04/12/2022

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

Our ref: 11228980

March 15, 2022

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

Re: **Site Characterization and Remediation Work Plan**
Hornbaker BA Battery Release Site
EOG Resources Inc.
Incident ID: nAPP2115335335
G-25-18S-25E, Eddy County, New Mexico

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Hornbaker BA Battery Site (Site). Remedial activities are also proposed for NMOCD considerations. The Site is located in Unit Letter G Section 25 of Township 18 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.72104 N latitude and 104.43326 W longitude. The release occurred on private land owned by Hornbaker Estate. 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 June 2, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to go ahead and file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number NAPP2115335335. The Release Notification, Site Assessment/Characterization, and Remediation Plan 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 I, Closure Criteria for Soils Impacted by a Release, (Table I) from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). GHD, on behalf of EOG, proposes to divide the Site into two (2) separate areas ("Area A" and "Area B") due to a significant watercourse being located within three hundred (300) feet of the northern portion of the Site.

Area A:

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i), Area A, approximately 2,548 square yards of the impacted surface area on the northern extent of the Site, is located within 300 feet of a significant watercourse and must be treated as if groundwater is less than fifty (50) feet below ground surface (bgs). Additionally, Area A is located within three hundred (300) feet of a wetland. No other receptors (Groundwater, water wells, playas, or ordinance boundaries) were located within each specific boundary or distance from the site. Figure 2- Site Assessment: Soil Analytical Results Map, depicts the boundary of Area A and Area B from the significant watercourse. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion, Wetlands maps and significant watercourse) are provided in Attachment B. The soil and closure criteria are listed below and will be referred to as **Standard A** in this report.

General Site Characterization and Groundwater: Table 1

Site Characterization	Average Groundwater Depth (ft.)
300 Feet from a Significant Watercourse/Wetlands	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

Area B:

On December 14, 2021, White Drilling Company (White) installed a soil boring at GPS coordinates, 32.717480 N latitude and 104.430046 W longitude to approximately 107.50 feet below ground surface (bgs) which is located within half a mile of the Site. The well was left open for seventy-two (72) hours and a water level meter was utilized to determine the presence or absence of groundwater. No groundwater was detected, and the boring was plugged and abandoned. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i), Area B, approximately 1,229 square yards of the impacted surface area on the southern extent of the Site, is located within an area that meets closure criteria for depth to groundwater greater than one hundred (100) feet. No other receptors (Karst areas, significant watercourses, water wells, playas, wetlands or ordinance boundaries) were located within each specific boundary or distance from the site. The Site characterization documentation (Boring Logs, Karst Potential, FEMA, Points of Diversion, Wetlands maps and significant watercourse) are provided in Attachment A. The soil and closure criteria are listed below and will be referred to as **Standard B** in this report.

General Site Characterization and Groundwater: Table 1

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

Table 3.2 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 and 13)

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

4. Initial Soil Delineation Assessment Summary and Findings

On June 10 through July 15, 2021, GHD Services Inc. (GHD) and EOG's contractor Culberson Construction Energy Services (CCI) installed thirty (30) test pits, TP1 through TP30, within the suspected impacted area's: Area A and Area B. 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.

Analytical results indicated eleven (11) of eighteen (18) test pits in Area A had samples exceeding applicable Table I (**Standard A**) closure criteria for a significant watercourse less than three hundred (300) feet: TP1, TP2, TP3, TP5, TP6, TP7, TP9, TP11, TP13, TP15, and TP17. Area B had twelve (12) test pits (TP-19 through TP-30) installed with none of the samples exceeding applicable Table I (**Standard B**) Closure Criteria for depth to groundwater greater than one hundred (100) feet. Analytical results are provided in Table 1, Table 2, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

GHD and White returned to the Site on December 8, 2021 through January 7, 2022, to install four (4) soil borings strategically positioned around the areas of test pits not vertically delineated to delineate Total TPH and chloride impacts: SB-1 through SB-3 (Area A) and SB-4 (Area B). During boring installation samples were obtained every five (5) to ten (10) feet starting at five (5) feet bgs until field screening and observations indicated the boring was delineated. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by HEAL in Albuquerque, New Mexico.

In Area A, analytical results indicated three (3) soil borings (SB-1, SB-2 and SB-3) exhibited chloride concentrations above Table I (**Standard A**) closure criteria at depths ranging from five (5) to ninety (90) feet bgs. Soil boring SB-3 also exhibited TPH concentrations above Table I (**Standard A**) closure criteria at five (5) and ninety (90) feet bgs. Soil Boring SB-3 exhibited no TPH concentrations after the first ten (10) feet bgs and again at eight-five (85) and ninety (90) bgs. Due to low TPH concentrations and irregular results it was determined to be cross-contamination from the drill rig lubrication or debris falling into the bore hole from the interval of surface to ten (10) bgs. Area B, Soil Boring SB-4 analytical results indicated TPH, Benzene, Chloride and BTEX concentrations were below Table I (**Standard B**) closure criteria. Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the test pit and soil boring locations and analytical concentrations. Soil Boring Logs are provided in Attachment B. Analytical results are provided in Table 1, Table 2, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

5. nAPP2125655405 Proposed Work Plan

Area A:

As per NMAC 19.15.29.14, GHD, on behalf of EOG, is requesting a variance for rule NMAC 19.15.29.12 for chloride impacts beyond four (4) feet below grade surface depth. Areas impacted by Benzene, BTEX and Total TPH beyond four (4) feet grade surface depth will be excavated until concentrations are below Table I (**Standard A**) closure criteria. Proposed excavation depths are listed as follows:

- TP-3 and SB-3 will be excavated to eight (8) feet bgs or until TPH concentrations are below Table I closure criteria. Confirmation bottomhole and sidewall samples will be collected by way of five (5) point composite samples from areas representing no greater than 200 square feet to ensure all TPH impacted soil above Table I closure criteria has been removed. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed. Once analytical results exhibit concentrations below Table I closure criteria the excavation will be backfilled with non-impact soil to four (4) feet below grade surface.
- TP-1 and TP-15 will be excavated to twenty (20) to twenty-four (24) feet bgs. If TPH concentrations are still above Table I closure criteria the area will be further excavated if conditions are safe to do so. Confirmation bottomhole and sidewall samples will be collected by way of five (5) point composite samples from areas representing no greater than 200 square feet to ensure all TPH impacted soil above Table I closure criteria has been removed. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed. Samples will be collected directly from Track-hoe bucket if excavation cannot safely be accessed.
- TP-2, TP-5, TP-6, TP-7, TP-9, TP-11, TP-13, TP-17, SB-1, and SB-2 to four (4) feet below grade surface or until the soils in the surface to four (4) feet below grade surface exhibit benzene, BTEX, TPH and chloride concentrations below Table I (**Standard A**) closure criteria. Confirmation sidewall samples will be collected by way of five (5) point composite samples from areas representing no greater than two hundred (200) square feet to ensure that soil remaining above four (4) feet meet the requirements set forth by NMAC 19.15.29.12 and 13. GHD, on behalf of EOG, proposes confirmation bottomhole samples to be collected by way of five (5) point composite samples from areas representing no greater than six hundred (600) square feet (due to the enlarged size of the excavation area). Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed.
- After all sidewall confirmation samples exhibit benzene, BTEX, TPH, and chloride concentrations below Table I (**Standard A**) a twenty (20) millimeter synthetic liner will be installed to the bottom of the excavation. Figure 2: Site Assessment: Soil Analytical Results Map, depicts the extent of the liner.

All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Area B:

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

- TP-19, TP-23, TP-26, TP-27, TP-28 and SB-4 will be excavated to four (4) feet bgs or until the soils in the surface to four (4) feet below grade surface exhibit TPH concentrations below 100 mg/kg and chloride concentrations below 600 mg/kg. GHD, on behalf of EOG, proposes confirmation bottomhole and sidewall samples be collected by way of five (5) point composite samples from areas representing no greater than six hundred (600) square feet (due to the enlarged size of the excavation area) to ensure that soil remaining above and below four (4) feet meet the requirements set forth by NMAC 19.15.29.12 and 13 prior to the commencement of backfill activities. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed.
- TP-22 will be excavated from four (4) to seven (7) feet below grade surface or until TPH concentration are below Table I (**Standard B**) closure criteria. Confirmation bottomhole and sidewall samples will be collected by way of five (5) point composite samples from areas representing no greater than 200 square feet to ensure all TPH impacted soil above Table I closure criteria has been removed. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed.

All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Area B will be backfilled with non-impacted material once analytical results indicate benzene, BTEX, TPH and chloride concentrations are below Table 1 (**Standard B**) closure criteria.

Area A and Area B:

The excavated areas will be backfilled with non-impacted soils imported to the Site. Excavated soils will be transported to an NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 8,100 cubic yards. Due to the large size of the excavation, the remediation will be performed within 180 days after the work plan has been approved. If benzene, BTEX, or TPH concentrations are above Table I closure criteria in any area after maximum excavation depths have been reached, a new work plan will be submitted to the NMOCD for approval.

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

Sincerely,

GHD



Becky Haskell
Senior Project Manager



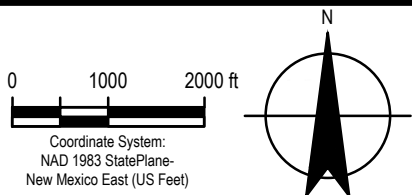
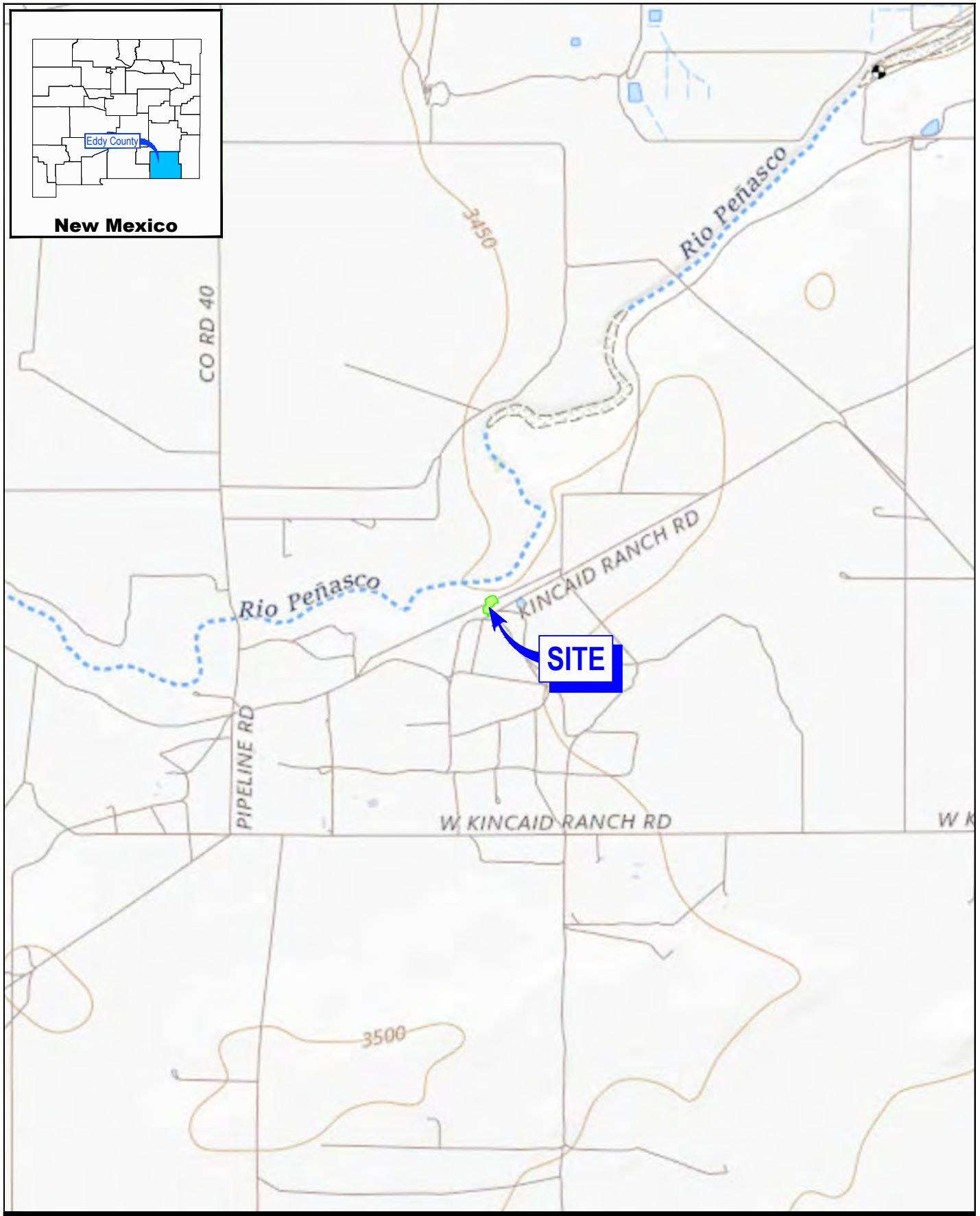
Zach H. Comino
Field Geologist

BH/ZC/1

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

cc: Chase Settle

Figures



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
HORNBAKER BA BATTERY

Project No. 11228980-02
Date December 2021

SITE LOCATION MAP

FIGURE 1

Filename: N:\USMidland\Projects\56211228980\Digital_Design\ACAD\Figures\RPT001\11228980-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Dayton, Artesia, New Mexico"
Lat/Long: 32.7211° North, 104.4333° West

Area A						
Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH	Chloride
			(mg/Kg)	(mg/Kg)	Total GRO/DROMRO	(mg/Kg)
					Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC	
Initial Assessment Samples						
TP1-6	6/10/21	6	5.2	78.2	17,000	2,600
TP1-20	7/13/21	20	0.033	2.833	1,408	650
TP2-2	6/10/21	2	<0.025	<0.098	<50	1,400
TP2-5	6/10/21	5	<0.025	<0.10	97	570
TP2-6	6/15/21	6	<0.025	<0.10	14	2,200
TP2-12	7/13/21	12	<0.025	<0.10	<50	4,700
TP2-16	7/13/21	16	<0.024	<0.096	<47	6,000
TP2-20	7/13/21	20	<0.025	<0.098	<48	8,600
TP3-2	6/10/21	2	<0.12	<0.50	630	1,500
TP3-5	6/10/21	5	<0.12	<0.50	280	980
TP3-6	6/15/21	6	<0.025	<0.098	130	750
TP3-8	6/15/21	8	<0.025	<0.097	15	750
TP3-10	7/12/21	10	<0.023	<0.094	<49	610
TP3-14	7/12/21	14	<0.024	<0.095	<48	590
TP4-S	6/10/21	Surface	<0.024	<0.098	<47	<60
TP4-2	6/10/21	2	<0.025	<0.098	<46	130
TP5-2	6/10/21	2	<0.024	<0.098	<49	3,400
TP5-5	6/10/21	5	<0.025	<0.099	<49	2,100
TP5-8	6/11/21	8	<0.024	<0.095	<48	2,900
TP5-10	6/11/21	10	<0.023	<0.094	<49	2,200
TP5-12	7/13/21	12	<0.025	<0.10	<49	5,400
TP5-16	7/13/21	16	<0.025	<0.10	<49	7,300
TP5-20	7/13/21	20	<0.025	<0.099	<50	9,200
TP6-2	6/10/21	2	<0.025	<0.099	<49	7,200
TP6-5	6/10/21	5	<0.025	<0.098	<43	4,000
TP6-6	6/11/21	6	<0.024	<0.097	<45	4,900
TP6-10	6/11/21	10	<0.024	<0.096	<49	920
TP6-12	7/13/21	12	<0.025	<0.099	<48	8,500
TP6-16	7/13/21	16	<0.025	<0.10	<48	9,900
TP6-20	7/13/21	20	<0.025	<0.099	<46	9,900
TP7-2	6/10/21	2	<0.025	<0.098	<47	1,100
TP7-5	6/10/21	5	<0.025	<0.1	<50	280
TP8-S	6/10/21	Surface	<0.12	<0.5	<47	<60
TP8-2	6/10/21	2	<0.025	<0.099	<49	250
TP9-2	6/10/21	2	<0.024	<0.097	<47	3,900
TP9-5	6/10/21	5	<0.025	<0.099	<50	3,200
TP9-6	6/11/21	6	<0.025	<0.050	<50	710
TP9-8	7/13/21	8	<0.023	<0.094	26	590
TP9-10	7/13/21	10	<0.024	<0.096	17	140
TP10-S	6/10/21	Surface	<0.12	<0.50	<50	<61
TP10-2	6/10/21	2	<0.025	<0.099	<48	320
TP11-1	6/10/21	1	<0.025	<0.098	<48	1,900
TP11-3	6/11/21	3	<0.025	<0.099	<49	1,400
TP11-5	6/11/21	5	<0.024	<0.097	<50	610
TP11-8	7/13/21	8	<0.024	<0.098	<50	8,600
TP11-12	7/13/21	12	<0.024	<0.096	<49	9,500
TP11-15	7/13/21	15	<0.025	<0.10	<49	8,800
TP11-18	7/13/21	18	<0.024	<0.097	<49	10,000
TP11-20	7/13/21	20	<0.025	<0.099	<48	16,000
TP12-S	6/10/21	Surface	<0.025	<0.099	<49	<60
TP12-1	6/10/21	1	<0.025	<0.099	<49	90
TP13-2	6/10/21	2	<0.024	<0.098	<48	4,600
TP13-5	6/11/21	5	<0.023	<0.091	<48	5,200
TP13-7	7/13/21	7	<0.025	<0.099	<47	11,000
TP13-14	7/13/21	14	<0.025	<0.098	<49	8,500
TP13-20	7/13/21	20	<0.024	<0.098	<47	13,000
TP14-S	6/10/21	Surface	<0.025	<0.099	<48	<60
TP14-2	6/10/21	2	<0.025	<0.1	<48	310
TP15-1	6/10/2021	1	<0.025	<0.098	<48	2,400
TP15-6	6/11/21	6	<0.024	0.42	1,334	3,300
TP15-10	6/11/21	10	<0.025	0.614	1,183	2,200
TP15-14	7/13/21	14	<0.025	<0.099	<48	4,200
TP15-16	7/13/21	16	<0.025	0.371	569.7	6,000
TP15-20	7/13/21	20	<0.025	<0.099	<50	6,100
TP16-S	6/10/21	Surface	<0.025	<0.1	<47	<60
TP16-2	6/10/21	2	<0.025	<0.1	<50	150
TP17-2	6/10/2021	2	<0.024	<0.097	<49	2,700
TP17-4	6/11/21	4	<0.024	<0.095	<50	1,600
TP17-8	7/14/21	8	<0.025	<0.099	<49	2,500
TP17-14	7/14/21	14	<0.023	<0.093	<48	5,100
TP17-20	7/14/21	20	<0.024	<0.095	<50	9,200
TP18-S	6/10/21	Surface	<0.025	<0.1	<48	<60
TP18-2	6/10/21	2	<0.024	<0.097	<50	66

Area A						
Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH	Chloride
			(mg/Kg)	(mg/Kg)	Total GRO/DRO/MRO	
					(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			
Soil Boring Samples						
SB-1-5	12/8/2021	5	<0.024	<0.097	12	5,900
SB-1-10	12/8/2021	10	<0.024	<0.098	<46	4,600
SB-1-15	12/8/2021	15	<0.024	<0.096	<44	6,300
SB-1-20	12/8/2021	20	<0.024	<0.096	11	5,700
SB-1-25	12/8/2021	25	<0.023	<0.093	<50	9,200
SB-1-30	12/8/2021	30	<0.025	<0.099	<48	5,400
SB-1-35	12/8/2021	35	<0.024	<0.098	<47	5,100
SB-1-40	12/8/2021	40	<0.024	<0.097	<49	6,800
SB-1-45	12/8/2021	45	<0.024	<0.094	<46	7,900
SB-1-50	12/8/2021	50	<0.023	<0.094	<46	6,500
SB-1-60	12/8/2021	60	<0.023	<0.094	<45	9,100
SB-1-70	12/8/2021	70	<0.023	<0.093	<45	6,000
SB-1-80	12/8/2021	80	<0.025	<0.10	71	6,900
SB-1-90	12/8/2021	90	<0.023	<0.093	<46	2,400
SB-1-95	12/8/2021	95	<0.025	<0.099	<49	540
SB-1-100	12/8/2021	100	<0.025	<0.10	<42	97
SB-2-5	12/8/2021	5	<0.023	<0.093	<50	9,500
SB-2-10	12/8/2021	10	<0.023	<0.093	<48	11,000
SB-2-15	12/8/2021	15	<0.024	<0.096	<48	7,000
SB-2-20	12/8/2021	20	<0.024	<0.094	<49	7,000
SB-2-25	12/8/2021	25	<0.023	<0.092	<49	8,500
SB-2-30	12/8/2021	30	<0.023	<0.092	<44	5,100
SB-2-35	12/8/2021	35	<0.023	<0.092	<50	2,900
SB-2-40	12/8/2021	40	<0.024	<0.096	<48	4,900
SB-2-45	12/8/2021	45	<0.024	<0.094	<44	3,600
SB-2-50	12/8/2021	50	<0.025	<0.10	<46	3,000
SB-2-55	12/8/2021	55	<0.024	<0.096	<49	5,100
SB-2-60	12/8/2021	60	<0.024	<0.095	<45	6,800
SB-2-70	12/8/2021	70	<0.024	<0.096	<49	2,400
SB-2-80	12/8/2021	80	<0.023	<0.093	<49	530
SB-2-85	12/8/2021	85	<0.024	<0.093	<46	<59
SB-3-5	12/14/2021	5	<0.023	<0.093	860	1,100
SB-3-10	12/14/2021	10	<0.024	<0.095	9	1,200
SB-3-15	12/14/2021	15	<0.025	<0.098	<47	3,200
SB-3-20	12/14/2021	20	<0.025	<0.099	<47	6,100
SB-3-25	12/14/2021	25	<0.025	<0.099	<47	5,500
SB-3-30	12/14/2021	30	<0.025	<0.098	<49	5,900
SB-3-35	12/14/2021	35	<0.024	<0.097	<50	6,500
SB-3-40	12/14/2021	40	<0.025	<0.099	<46	7,100
SB-3-45	12/14/2021	45	<0.024	<0.098	<39	6,900
SB-3-50	12/14/2021	50	<0.025	<0.098	<48	5,400
SB-3-55	12/14/2021	55	<0.025	<0.099	<48	5,500
SB-3-60	12/14/2021	60	<0.024	<0.096	<49	5,000
SB-3-70	12/14/2021	70	<0.023	<0.092	<47	2,300
SB-3-75	12/14/2021	75	<0.024	<0.097	<46	5,100
SB-3-85	12/14/2021	85	<0.023	<0.094	9.5	1,300
SB-3-90	12/14/2021	90	<0.023	<0.092	158	<60
SB-3-95	1/7/2022	95	<0.025	<0.098	<46	<60

Area B						
Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH	Chloride
			(mg/Kg)	(mg/Kg)	Total GRO/DROMRO	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/Kg	50 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
Initial Assessment Samples						
TP19-2	6/10/21	2	<0.049	<0.098	<50	2,100
TP19-5	6/10/21	5	<0.024	<0.097	<49	870
TP19-6	6/11/21	6	<0.024	<0.097	<48	720
TP19-10	7/14/21	10	<0.023	<0.093	<49	210
TP19-14	7/14/21	14	<0.024	<0.096	<47	180
TP20-S	6/10/21	Surface	<0.025	<0.098	<48	<59
TP20-2	6/10/21	2	<0.025	<0.099	<47	310
TP21-S	6/15/2021	Surface	<0.025	<0.10	<45	<60
TP21-2	6/15/2021	2	<0.025	<0.099	<43	<60
TP22-S	6/15/2021	Surface	<0.025	<0.098	<50	<60
TP22-2	6/15/2021	2	<0.025	<0.099	195	<60
TP22-4	7/14/2021	4	<0.12	<0.47	2,700	1,000
TP22-7	7/14/2021	7	<0.023	<0.093	540	2,100
TP22-14	7/14/2021	14	<0.023	<0.093	<46	1,500
TP22-20	7/14/2021	20	<0.024	<0.096	540	2,200
TP23-2	6/15/2021	2	<0.025	<0.10	<47	5,700
TP23-6	6/15/2021	6	<0.025	<0.098	<44	1,700
TP23-9	6/15/2021	9	<0.023	<0.092	<45	820
TP23-10	6/15/2021	10	<0.023	<0.092	<48	710
TP23-12	7/14/2021	12	<0.025	<0.098	<48	260
TP23-14	7/14/2021	14	<0.025	<0.099	<49	<60
TP24-S	6/15/2021	Surface	<0.024	<0.095	<50	74
TP24-2	6/15/2021	2	<0.025	<0.099	<48	<60
TP25-S	6/15/2021	Surface	<0.025	<0.098	<51	<60
TP25-2	6/15/2021	2	<0.025	<0.099	<47	<60
TP26-2	6/15/2021	2	<0.025	<0.099	<45	1,500
TP26-6	6/15/2021	6	<0.025	<0.098	<46	710
TP26-8	7/14/2021	8	<0.024	<0.096	<48	2,100
TP26-16	7/14/2021	16	<0.024	<0.095	<48	1,900
TP26-20	7/14/2021	20	<0.024	<0.096	<48	1,300
TP27-S	6/15/2021	Surface	<0.025	<0.099	74.9	76
TP27-2	6/15/2021	2	<0.024	<0.097	149	120
TP27-4	7/14/2021	4	<0.024	<0.098	<50	1,100
TP27-11	7/14/2021	11	<0.024	<0.094	<47	700
TP27-16	7/14/2021	16	<0.023	<0.092	<47	200
TP28-8	7/14/2021	8	<0.025	<0.099	<49	2,400
TP28-12	7/14/2021	12	<0.024	<0.098	<48	2,100
TP28-20	7/14/2021	20	<0.025	<0.099	<46	570
TP29-S	7/15/2021	Surface	<0.025	<0.10	<48	<60
TP29-2	7/15/2021	2	<0.025	<0.098	<49	<60
TP29-5	7/15/2022	5	<0.025	<0.10	<48	<60
TP30-S	7/15/2021	Surface	<0.024	<0.097	<49	<60
TP30-2	7/15/2021	2	<0.025	<0.10	<49	<60
TP30-5	7/15/2022	5	<0.024	<0.097	<49	<60
Soil Boring Samples						
SB-4-5	12/8/2021	5	<0.11	<0.46	770	2,000
SB-4-10	12/8/2021	10	<0.12	>0.46	163	2,900
SB-4-15	12/8/2021	15	<0.12	<0.48	<49	2,900
SB-4-20	12/8/2021	20	<0.12	>0.46	87	2,600
SB-4-25	12/8/2021	25	<0.024	<0.097	<50	2,100
SB-4-30	12/8/2021	30	<0.025	<0.099	<48	880
SB-4-35	12/8/2021	35	<0.025	<0.098	<49	340
SB-4-40	12/8/2021	40	<0.024	<0.095	<50	150

Tables

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A													
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	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		
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC										(mg/Kg)
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg	
Initial Assessment Samples													
TP1-6	6/10/21	6	5.2	20	17	36	78.2	1,100	9,500	6,400	17,000	2,600	
TP1-20	7/13/21	20	0.033	<0.050	1.2	1.6	2.833	58	760	590	1,408	650	
TP2-2	6/10/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	1,400	
TP2-5	6/10/21	5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	48	49	97	570	
TP2-6	6/15/21	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	14	<45	14	2,200	
TP2-12	7/13/21	12	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<50	4,700	
TP2-16	7/13/21	16	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<47	<47	6,000	
TP2-20	7/13/21	20	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	8,600	
TP3-2	6/10/21	2	<0.12	<0.25	<0.25	<0.50	<0.50	<25	200	430	630	1,500	
TP3-5	6/10/21	5	<0.12	<0.25	<0.25	<0.50	<0.50	<25	100	180	280	980	
TP3-6	6/15/21	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	38	92	130	750	
TP3-8	6/15/21	8	<0.025	<0.048	<0.048	<0.097	<0.097	<4.8	15	<45	15	750	
TP3-10	7/12/21	10	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	610	
TP3-14	7/12/21	14	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.6	<48	<48	590	
TP4-S	6/10/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	<60	
TP4-2	6/10/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	130	
TP5-2	6/10/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<4.9	3,400	
TP5-5	6/10/21	5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.7	<43	<4.9	2,100	
TP5-8	6/11/21	8	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.7	<48	<48	2,900	
TP5-10	6/11/21	10	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	2,200	
TP5-12	7/13/21	12	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	5,400	
TP5-16	7/13/21	16	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	7,300	
TP5-20	7/13/21	20	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	9,200	
TP6-2	6/10/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	7,200	
TP6-5	6/10/21	5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.6	<43	<43	4,000	
TP6-6	6/11/21	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.0	<45	<45	4,900	
TP6-10	6/11/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<49	920	
TP6-12	7/13/21	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<48	8,500	

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	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)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC												
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
TP6-16	7/13/21	16	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	9,900
TP6-20	7/13/21	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	9,900
TP7-2	6/10/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	1,100
TP7-5	6/10/21	5	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<10	<50	<50	280
TP8-S	6/10/21	Surface	<0.12	<0.25	<0.25	<0.5	<0.5	<25	<9.5	<47	<47	<60
TP8-2	6/10/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	250
TP9-2	6/10/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<47	<47	3,900
TP9-5	6/10/21	5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<10	<50	<50	3,200
TP9-6	6/11/21	6	<0.025	<0.050	<0.050	<0.050	<0.050	<5.0	<10	<50	<50	710
TP9-8	7/13/21	8	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	26	<47	26	590
TP9-10	7/13/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	17	<48	17	140
TP10-S	6/10/21	Surface	<0.12	<0.25	<0.25	<0.50	<0.50	<25	<10	<50	<50	<61
TP10-2	6/10/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	320
TP11-1	6/10/21	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	1,900
TP11-3	6/11/21	3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<4.9	1,400
TP11-5	6/11/21	5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	610
TP11-8	7/13/21	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	8,600
TP11-12	7/13/21	12	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	9,500
TP11-15	7/13/21	15	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	8,800
TP11-18	7/13/21	18	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<49	10,000
TP11-20	7/13/21	20	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	16,000
TP12-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	<60
TP12-1	6/10/21	1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	90
TP13-2	6/10/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	4,600
TP13-5	6/11/21	5	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.5	<48	<48	5,200
TP13-7	7/13/21	7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	11,000
TP13-14	7/13/21	14	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	8,500
TP13-20	7/13/21	20	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	13,000

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A													
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	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		
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC										(mg/Kg)
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg	
TP14-S	6/10/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<48	<60	
TP14-2	6/10/21	2	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.6	<48	<48	310	
TP15-1	6/10/2021	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	2,400	
TP15-6	6/11/21	6	<0.024	<0.048	<0.048	0.42	0.42	34	900	400	1,334	3,300	
TP15-10	6/11/21	10	<0.025	<0.047	0.054	0.56	0.614	43	800	340	1,183	2,200	
TP15-14	7/13/21	14	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	4,200	
TP15-16	7/13/21	16	<0.025	<0.049	0.071	0.30	0.371	9.7	390	170	569.7	6,000	
TP15-20	7/13/21	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	6,100	
TP16-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.5	<47	<47	<60	
TP16-2	6/10/21	2	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<10	<50	<50	150	
TP17-2	6/10/2021	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<49	2,700	
TP17-4	6/11/21	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<50	<50	1,600	
TP17-8	7/14/21	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	2,500	
TP17-14	7/14/21	14	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.7	<48	<48	5,100	
TP17-20	7/14/21	20	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<10	<50	<50	9,200	
TP18-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.7	<48	<48	<60	
TP18-2	6/10/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<50	<50	66	
Soil Boring Samples													
SB-1-5	12/8/2021	5	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	12	<44	12	5,900	
SB-1-10	12/8/2021	10	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<46	4,600	
SB-1-15	12/8/2021	15	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<44	<44	6,300	
SB-1-20	12/8/2021	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	11	<47	11	5,700	
SB-1-25	12/8/2021	25	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<10	<50	<50	9,200	
SB-1-30	12/8/2021	30	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	5,400	
SB-1-35	12/8/2021	35	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<47	5,100	
SB-1-40	12/8/2021	40	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<49	<49	6,800	
SB-1-45	12/8/2021	45	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.1	<46	<46	7,900	
SB-1-50	12/8/2021	50	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.1	<46	<46	6,500	
SB-1-60	12/8/2021	60	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.1	<45	<45	9,100	

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	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
SB-1-70	12/8/2021	70	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.0	<45	<45	6,000
SB-1-80	12/8/2021	80	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	20	51	71	6,900
SB-1-90	12/8/2021	90	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.2	<46	<46	2,400
SB-1-95	12/8/2021	95	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	540
SB-1-100	12/8/2021	100	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.3	<42	<42	97
SB-2-5	12/8/2021	5	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<50	<50	9,500
SB-2-10	12/8/2021	10	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.6	<48	<48	11,000
SB-2-15	12/8/2021	15	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<48	7,000
SB-2-20	12/8/2021	20	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	7,000
SB-2-25	12/8/2021	25	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<49	<49	8,500
SB-2-30	12/8/2021	30	<0.023	<0.047	<0.047	<0.092	<0.092	<4.7	<8.8	<44	<44	5,100
SB-2-35	12/8/2021	35	<0.023	<0.047	<0.047	<0.092	<0.092	<4.6	<10	<50	<50	2,900
SB-2-40	12/8/2021	40	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	4,900
SB-2-45	12/8/2021	45	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<8.8	<44	<44	3,600
SB-2-50	12/8/2021	50	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<46	<46	3,000
SB-2-55	12/8/2021	55	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<49	<49	5,100
SB-2-60	12/8/2021	60	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<8.9	<45	<45	6,800
SB-2-70	12/8/2021	70	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	2,400
SB-2-80	12/8/2021	80	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<49	<49	530
SB-2-85	12/8/2021	85	<0.024	<0.047	<0.047	<0.093	<0.093	<4.7	<9.1	<46	<46	<59
SB-3-5	12/14/2021	5	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	250	610	860	1,100
SB-3-10	12/14/2021	10	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	9	<45	9	1,200
SB-3-15	12/14/2021	15	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	3,200
SB-3-20	12/14/2021	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<47	<47	6,100
SB-3-25	12/14/2021	25	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<47	<47	5,500
SB-3-30	12/14/2021	30	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<49	<49	5,900
SB-3-35	12/14/2021	35	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	6,500
SB-3-40	12/14/2021	40	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	7,100
SB-3-45	12/14/2021	45	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<7.8	<39	<39	6,900
SB-3-50	12/14/2021	50	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	5,400

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
SB-3-55	12/14/2021	55	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	5,500
SB-3-60	12/14/2021	60	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<49	<49	5,000
SB-3-70	12/14/2021	70	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.4	<47	<47	2,300
SB-3-75	12/14/2021	75	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.1	<46	<46	5,100
SB-3-85	12/14/2021	85	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	9.5	<47	9.5	1,300
SB-3-90	12/14/2021	90	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	48	110	158	<60
SB-3-95	1/7/2021	95	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	<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. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

B-BH-2 Sample Point Excavated

Table 2
Summary of Soil Analytical Data For Area B
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area B												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	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	
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
Initial Assessment Samples												
TP19-2	6/10/21	2	<0.049	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	2,100
TP19-5	6/10/21	5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	870
TP19-6	6/11/21	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	720
TP19-10	7/14/21	10	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.9	<49	<49	210
TP19-14	7/14/21	14	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	180
TP20-S	6/10/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	<59
TP20-2	6/10/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	310
TP21-S	6/15/2021	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<45	<45	<60
TP21-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.5	<43	<43	<60
TP22-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	<60
TP22-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	45	150	195	<60
TP22-4	7/14/2021	4	<0.12	<0.23	<0.23	<0.47	<0.47	<23	1,300	1,400	2,700	1,000
TP22-7	7/14/2021	7	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	230	310	540	2,100
TP22-14	7/14/2021	14	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.3	<46	<46	1,500
TP22-20	7/14/2021	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	190	350	540	2,200
TP23-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<47	5,700
TP23-6	6/15/2021	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	1,700
TP23-9	6/15/2021	9	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.1	<45	<45	820
TP23-10	6/15/2021	10	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<48	<48	710
TP23-12	7/14/2021	12	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	260
TP23-14	7/14/2021	14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	<60
TP24-S	6/15/2021	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	74
TP24-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP25-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<51	<51	<60
TP25-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	<60
TP26-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.0	<45	<45	1,500

Table 2
Summary of Soil Analytical Data For Area B
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area B													
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	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		
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC										(mg/Kg)
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg	
TP26-6	6/15/2021	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	710	
TP26-8	7/14/2021	8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	2,100	
TP26-16	7/14/2021	16	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<48	1,900	
TP26-20	7/14/2021	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	1,300	
TP27-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	9.9	65	74.9	76	
TP27-2	6/15/2021	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	49	100	149	120	
TP27-4	7/14/2021	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	1,100	
TP27-11	7/14/2021	11	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.3	<47	<47	700	
TP27-16	7/14/2021	16	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.4	<47	<47	200	
TP28-8	7/14/2021	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<49	<49	2,400	
TP28-12	7/14/2021	12	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	2,100	
TP28-20	7/14/2021	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	570	
TP29-S	7/15/2021	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<48	<48	<60	
TP29-2	7/15/2021	2	<0.025	<0.050	<0.050	<0.098	<0.098	<4.9	<9.8	<49	<49	<60	
TP29-5	7/15/2022	5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<48	<48	<60	
TP30-S	7/15/2021	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60	
TP30-2	7/15/2021	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	<60	
TP30-5	7/15/2022	5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60	
Soil Boring Samples													
SB-4-5	12/8/2021	5	<0.11	<0.23	<0.23	<0.46	<0.46	<23	290	480	770	2,000	
SB-4-10	12/8/2021	10	<0.12	<0.12	<0.23	>0.46	>0.46	<0.23	97	66	163	2,900	
SB-4-15	12/8/2021	15	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<9.7	<49	<49	2,900	
SB-4-20	12/8/2021	20	<0.12	<0.12	<0.12	>0.46	>0.46	<23	87	<48	87	2,600	
SB-4-25	12/8/2021	25	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	2,100	
SB-4-30	12/8/2021	30	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	880	
SB-4-35	12/8/2021	35	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	340	
SB-4-40	12/8/2021	40	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	150	

Table 2
Summary of Soil Analytical Data For Area B
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area B												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg

- 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. J - the target analytes was positively identified below the quantitation limit and above the detection limit.
- B-BH-2

Sample Point Excavated

Attachment A

Site Characterization Documentation



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Nix Curtis BH Battery

HOLE DESIGNATION: DTW Well

PROJECT NUMBER: 11229322

DATE COMPLETED: December 14, 2021

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Artesia, New Mexico

FIELD PERSONNEL: L. Mullins

DRILLING CONTRACTOR: White Drilling Company, Inc

DRILLER: B. Adkins

File: I:\LOG DATABASE\8-CHAR\11-1122-11229322 NIX11229322-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/13/22

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	
5	CL-SILTY CLAY, with sand, light brown, dry							
10								
12.00	CL-SILTY CLAY, light brown, dry	12.00						
15								
20								
25								
30								
35	CL-CLAY, with silt and caliche interbedded	35.00						
38.00	CL-CLAY, with fine to medium grained sand, light brown, slightly moist	38.00						
40								
45								
50								
55								
60	CL-SILTY CLAY, with sand and rock interbedded throughout, light brown, slightly damp	60.00						

 Backfilled With
Cement Grout

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Nix Curtis BH Battery

HOLE DESIGNATION: DTW Well

PROJECT NUMBER: 11229322

DATE COMPLETED: December 14, 2021

CLIENT: EOG Resources

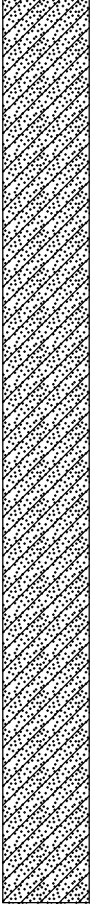
DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Artesia, New Mexico

FIELD PERSONNEL: L. Mullins

DRILLING CONTRACTOR: White Drilling Company, Inc

DRILLER: B. Adkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	
70	SP-SAND, with silt, fine to medium grained, light brown, slightly damp	70.00						
75								
80								
85								
90								
95								
100								
105								
107.50	END OF BOREHOLE @ 107.50ft BGS	107.50						
110	DTW Well was left open for 72 hours to determine presence or absence of groundwater by utilization of a water level meter. No groundwater was present.							
115								
120								
125								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-1122-11229322 NIX11229322 CO. GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/13/22



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) RA-13120 POD 6 (DTW)		WELL TAG ID NO.		OSE FILE NO(S). RA-13120			
	WELL OWNER NAME(S) EOG Resources Inc.				PHONE (OPTIONAL) 575-703-6537			
	WELL OWNER MAILING ADDRESS 105 S. 4th Street				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 43	SECONDS 02.90	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 104	25	48.14	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Nix Curtis								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.		
	DRILLING STARTED 12/14/2021		DRILLING ENDED 12/21/2021		DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 106'	DEPTH WATER FIRST ENCOUNTERED (FT) DRY	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) DRY	
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0.0	106.0	6.0	Type 1 Cement-Bentonite Slurry	20.80	Pump Mix w/Trimie Pipe		

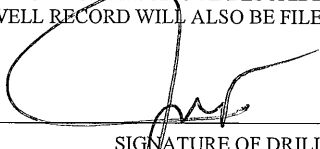
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0.0	4.0	4.0	Brown silty clayey sand	Y ✓ N	
	4.0	12.0	8.0	Tan silty sandy clay	Y ✓ N	
	12.0	17.0	5.0	Brown sandy clay	Y ✓ N	
	17.0	20.0	3.0	Tan sandstone/sand	Y ✓ N	
	20.0	23.0	3.0	Yellow brown sand/sandstone	Y ✓ N	
	23.0	25.0	2.0	Tan sand w/gravel	Y ✓ N	
	25.0	32.0	7.0	Tan/brown sandy clay	Y ✓ N	
	32.0	38.0	6.0	Brown sand/sandy clay	Y ✓ N	
	38.0	40.0	2.0	Brown sandy clay w/gravel mixed	Y ✓ N	
	40.0	55.0	15.0	Brown sandy clay	Y ✓ N	
	55.0	65.0	10.0	Gravel w/brown sand	Y ✓ N	
	65.0	66.0	1.0	Tan/brown sand/sandstone	Y ✓ N	
	66.0	68.0	2.0	Brown sand w/gravel mixed	Y ✓ N	
	68.0	105.0	37.0	Red brown sand/sandstone	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: William B. Atkins	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	John W. White _____ DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Hornbaker BA Battery

Karst Potential Map

Legend

-  High
-  Hornbaker BA Battery
-  Low
-  Medium

Hornbaker BA Battery

38

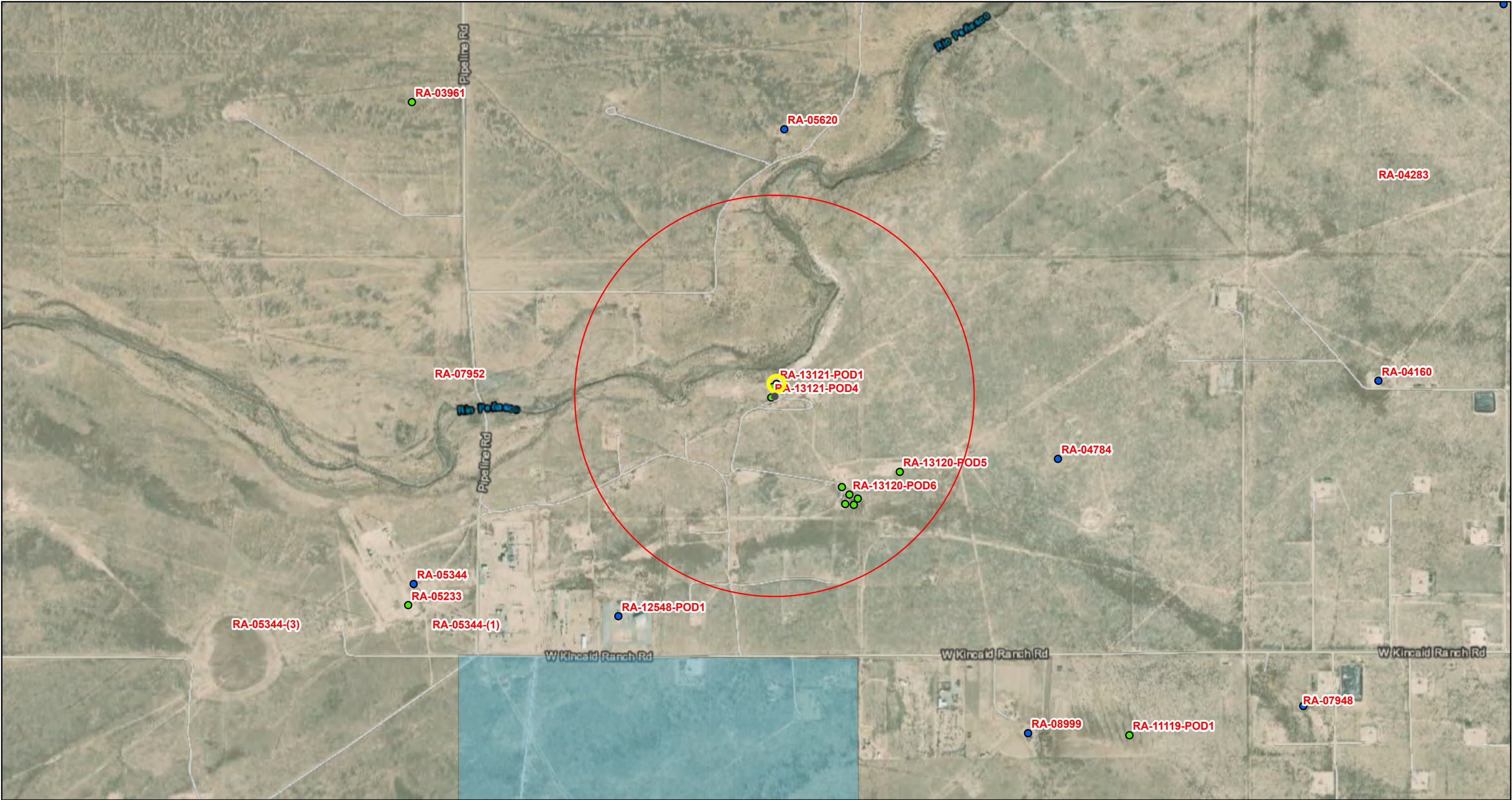
38



4000 ft

Google Earth

OSE POD Locations Map



3/11/2022, 3:07:54 PM

GIS WATERS PODs

Active

Pending

OSE District Boundary

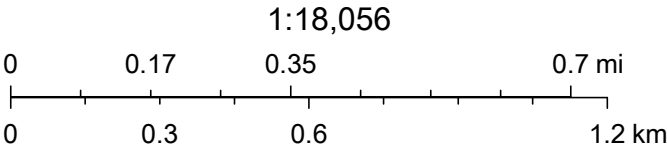
Water Right Regulations

Closure Area

New Mexico State Trust Lands

Both Estates

SiteBoundaries



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

Hornbaker BA Battery

Significant Watercourse Map

Legend

-  0.5 Miles
-  300 Feet
-  Hornbaker BA Battery

CO ROAD 40

DAYTON RD

3450

Rio Peñasco

Hornbaker BA Battery

25

30

KINCAID RANCH RD

CO ROAD 38

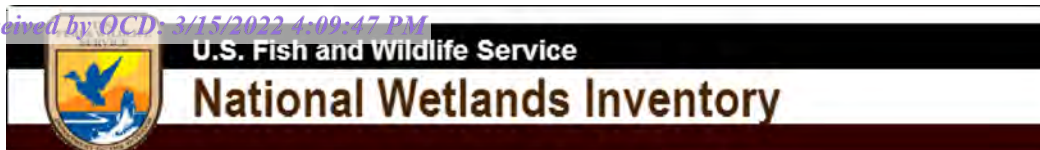
38

38

SNOWBERRY LN



4000 ft



Hornbaker BA Battery



December 15, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette



104°26'18"W 32°43'31"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 104°25'41"W 32°43'1"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
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		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
		Digital Data Available
		No Digital Data Available
MAP PANELS		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/15/2021 at 9:49 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Attachment B

Soil Boring Logs



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Hornbaker BA Battery

HOLE DESIGNATION: SB-1

PROJECT NUMBER: 11228980

DATE COMPLETED: December 10, 2021

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: Z. Comino/L. Mullins

DRILLING CONTRACTOR: White Drilling Company, Inc.

DRILLER: B. Atkins

File: I:\LOG DATABASE\8-CHAR\11-1122-11228980 HORNBAKER11228980.CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
5	SM-SILTY SAND, with <0.5 - 1 cm caliche gravel, fine to medium grained sand, white to tan, dry, no odor			5'			5900	12
10	CL-CLAY, with fine sand, white to tan, damp, no odor	10.00		10'			4600	<46
15				15'			6300	<44
20				20'			5700	11
25				25'			9200	<50
30	- moist from 30.00 to 40.00ft BGS			30'			5400	<48
35				35'			5100	<47
40	CL-CLAY, with fine sand, tan to brown, damp, no odor	40.00		40'			6800	<49
45				45'			7900	<46
50				50'			6500	<46
55								

 Backfilled With
Cement Grout

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Hornbaker BA Battery

HOLE DESIGNATION: SB-1

PROJECT NUMBER: 11228980

DATE COMPLETED: December 10, 2021

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: Z. Comino/L. Mullins

DRILLING CONTRACTOR: White Drilling Company, Inc.

DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
60				60'			9100	<45
65								
70	SM-SILTY SAND, with <0.5 - 1 cm limestone gravel, fine grained sand, red to brown, damp	70.00		70'			6000	<45
75								
80	CL-SILTY CLAY, light brown and gray, slightly moist	80.00		80'			6900	71
85								
90				90'			2400	<46
95	CL-SILTY CLAY, with sand, light brown and gray, slightly moist	95.00		95'			540	<49
100	END OF BOREHOLE @ 100.00ft BGS	100.00		100'			57	<42
105								
110								
115								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



File: I:\LOG DATABASE\8-CHAR\11-1122-11228980 HORNBAKER\11228980-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Hornbaker BA Battery

HOLE DESIGNATION: SB-2

PROJECT NUMBER: 11228980

DATE COMPLETED: December 8, 2021

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: Z. Comino

DRILLING CONTRACTOR: White Drilling Company, Inc.

DRILLER: B. Atkins

File: I:\LOG DATABASE\8-CHAR\11-1122-11228980 HORNBAKER\11228980.CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
5	SM-SILTY SAND, with <0.5 cm caliche and sandstone gravel, fine to medium grained sand, brown to tan, dry, no odor							
5	CL-CLAY, with fine sand, green to white, damp, no odor	5.00		5'			9500	<50
10				10'			11000	<48
15				15'			7000	<48
20	CL-CLAY, with fine sand, white to tan, damp, no odor	20.00		20'			7000	<49
25				25'			8500	<49
30				30'			5100	<44
35	CL-CLAY, with fine sand, red to brown, damp, no odor	35.00		35'			2900	<50
40				40'			4900	<48
45				45'			3600	<44
50				50'			3000	<46
55				55'			5100	<49

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Cement Grout

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Hornbaker BA Battery

HOLE DESIGNATION: SB-2

PROJECT NUMBER: 11228980

DATE COMPLETED: December 8, 2021

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: Z. Comino

DRILLING CONTRACTOR: White Drilling Company, Inc.

DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
60	SM-SILTY SAND, trace 0.5 - 2 cm limestone gravel, red to brown, damp, no odor	60.00		60'			6800	<45
65				70'			2400	<49
70								
75								
80	CL-CLAY, with fine sand, red to brown, moist, no odor	80.00		80'			530	<49
85	END OF BOREHOLE @ 85.00ft BGS	85.00		85'			<59	<46
90								
95								
100								
105								
110								
115								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



File: I:\LOG DATABASE\8-CHAR\11-1122-11228980 HORNBAKER\11228980.CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Hornbaker BA Battery

HOLE DESIGNATION: SB-3

PROJECT NUMBER: 11228980

DATE COMPLETED: January 7, 2022

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: Z. Comino/L. Mullins

DRILLING CONTRACTOR: White Drilling Company, Inc.

DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
5	SP-SAND, with caliche interbedded, fine to medium grained sand, light brown, dry			5'			1100	860
10				10'			1200	9
15	CL-CLAY, with sand, light brown, dry	15.00		15'			3200	<47
20				20'			6100	<47
25				25'			5500	<47
30	CL-SILTY CLAY, light brown, slightly moist	30.00		30'			5900	<49
35				35'			6500	<50
40				40'			7100	<46
45	CL-SILTY CLAY, with sand, orangish brown, slightly moist	45.00		45'			6900	<39
50				50'			5400	<48
55				55'			5500	<48

Backfilled With
Cement Grout

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

File: I:\LOG DATABASE\8-CHAR\11-1122-11228980 HORNBAKER11228980.CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Hornbaker BA Battery

HOLE DESIGNATION: SB-3

PROJECT NUMBER: 11228980

DATE COMPLETED: January 7, 2022

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: Z. Comino/L. Mullins

DRILLING CONTRACTOR: White Drilling Company, Inc.

DRILLER: B. Atkins

File: I:\LOG DATABASE\8-CHAR\11-1122-11228980 HORNBAKER11228980.CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
60	- rock interbedded throughout from 60.00 to 75.00ft BGS			60'			5000	<49
65								
70				70'			2300	<47
75	SP-SAND, with silt, orangish brown	75.00		75'			5100	<46
80								
85				85'			1300	9.5
90	SM SILTY-SAND, fine to medium grained, well sorted, red to brown, damp, no odor	90.00		90'			<60	158
95				95'			<60	<46
100	END OF BOREHOLE @ 100.00ft BGS	100.00						
105								
110								
115								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Hornbaker BA Battery

HOLE DESIGNATION: SB-4

PROJECT NUMBER: 11228980

DATE COMPLETED: December 8, 2021

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: Z. Comino

DRILLING CONTRACTOR: White Drilling Company, Inc.

DRILLER: B. Atkins

File: I:\LOG DATABASE\8-CHAR\11-1122-11228980 HORNBAKER11228980.CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
	SM-SILTY SAND, with <0.5 cm sandstone gravel, fine to medium grained sand, brown to tan, dry, no odor							
5	CL-CLAY, with fine grained sand, well sorted, green to white, damp, no odor	5.00		5'			2000	770
10				10'			2900	163
15				15'			2900	<49
20	CL-CLAY, with fine sand, white to tan, damp, no odor	20.00		20'			2600	87
25	- white to red from 25.00 to 40.00ft BGS			25'			2100	<50
30				30'			880	<48
35				35'			340	<49
40	END OF BOREHOLE @ 40.00ft BGS	40.00		40'			150	<50

 Backfilled With
Cement Grout

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) RA-13121 POD 1 (SB-1)			WELL TAG ID NO.		OSE FILE NO(S). RA-13121			
	WELL OWNER NAME(S) EOG Resources Inc.					PHONE (OPTIONAL) 575-703-6537			
	WELL OWNER MAILING ADDRESS 105 S. 4th Street					CITY Artesia		STATE NM	ZIP 88210
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 43	SECONDS 17.30	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LONGITUDE 104		25	59.37	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Hornbaker BA Battery									

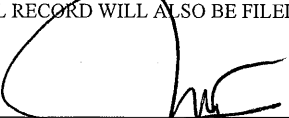
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.			
	DRILLING STARTED 12/08/2021		DRILLING ENDED 12/10/2021		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT) 100'		
							DEPTH WATER FIRST ENCOUNTERED (FT) DRY		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)							STATIC WATER LEVEL IN COMPLETED WELL (FT) DRY	
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:								
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:								
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
	FROM	TO							

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0.0	100.0	6.0	Type 1 Cement-Bentonite Slurry	19.63	Pump Mix w/Trimie Pipe

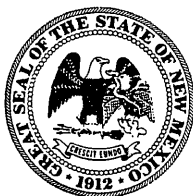
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.		POD NO.	TRN NO.
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL	0.0	4.0	4.0	Brown sand/clayey sand	Y ✓ N	
	4.0	13.0	9.0	Tan/brown sandstone	Y ✓ N	
	13.0	51.0	38.0	Brown silty clay w/green silty clay mixed	Y ✓ N	
	51.0	100.0	49.0	Brown sandy clay w/gravel mixed	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Chlorides present					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: William B. Atkins					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME				John W. White _____ DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO	PAGE 2 OF 2	



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

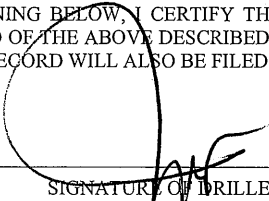
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) RA-13121 POD 2 (SB-2)		WELL TAG ID NO.		OSE FILE NO(S). RA-13121			
	WELL OWNER NAME(S) EOG Resources Inc.				PHONE (OPTIONAL) 575-703-6537			
	WELL OWNER MAILING ADDRESS 105 S. 4th Street				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 43	SECONDS 16.99 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE 104	26	00.10 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Hornbaker BA Battery								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.		
	DRILLING STARTED 12/08/2021		DRILLING ENDED 12/09/2021		DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 85'	DEPTH WATER FIRST ENCOUNTERED (FT) DRY	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) DRY		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0.0	85.0	6.0	Type 1 Cement-Bentonite Slurry	16.68	Pump Mix w/Trimie Pipe		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
	0.0	8.0	8.0	Tan brown silty sand/sandstone caliche	Y	✓ N	
	8.0	45.0	37.0	Brown, green and tan molded silty clay	Y	✓ N	
	45.0	62.0	17.0	Brown silty clay	Y	✓ N	
	62.0	63.0	1.0	Gravel w/clay	Y	✓ N	
	63.0	65.0	2.0	Brown silty clay	Y	✓ N	
	65.0	85.0	20.0	Brown sandy clay w/gravel mixed	Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00		
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
		MISCELLANEOUS INFORMATION: Chlorides present					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: William B. Atkins							
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.						
 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME				John W. White _____ DATE			



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

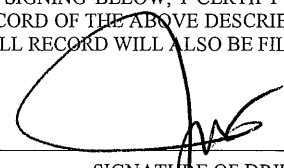
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) RA-13121 POD 3 (SB-3)		WELL TAG ID NO.		OSE FILE NO(S). RA-13121			
	WELL OWNER NAME(S) EOG Resources Inc.				PHONE (OPTIONAL) 575-703-6537			
	WELL OWNER MAILING ADDRESS 105 S. 4th Street				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 43	SECONDS 16.80	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 104	25	59.26	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Hornbaker BA Battery								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.		
	DRILLING STARTED 12/14/2021	DRILLING ENDED 12/15/2021	DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT) 100'	DEPTH WATER FIRST ENCOUNTERED (FT) DRY		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) DRY		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0.0	100.0	6.0	Type 1 Cement-Bentonite Slurry	19.62	Pump Mix w/Trimie Pipe		

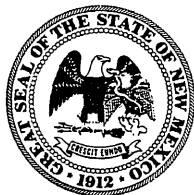
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	0.0	12.0	12.0	Brown sand/clayey sand caliche	Y ✓ N		
	12.0	33.0	21.0	Green tan clay	Y ✓ N		
	33.0	50.0	17.0	Brown clay w/green and gray clay mixed	Y ✓ N		
	50.0	69.0	19.0	Brown clay w/gravel mixed	Y ✓ N		
	69.0	75.0	6.0	Tan sandstone streaks	Y ✓ N		
	75.0	100.0	25.0	Brown sandy clay w/gravel mixed	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: Chlorides present							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: William B. Atkins							
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.						
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME				John W. White _____ DATE		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO		PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

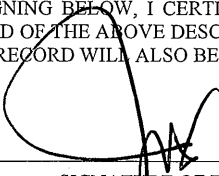
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) RA-13121 POD 4 (SB-4)		WELL TAG ID NO.		OSE FILE NO(S). RA-13121			
	WELL OWNER NAME(S) EOG Resources Inc.				PHONE (OPTIONAL) 575-703-6537			
	WELL OWNER MAILING ADDRESS 105 S. 4th Street				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 43	SECONDS 15.38	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 104	26	00.41	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Hornbaker BA Battery								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.		
	DRILLING STARTED 12/08/2021		DRILLING ENDED 12/09/2021		DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 40.0	DEPTH WATER FIRST ENCOUNTERED (FT) DRY	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) DRY	
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0.0	40.0	6.0	Type 1 Cement-Bentonite Slurry	7.85	Pump Mix w/Trimie Pipe		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	0.0	5.5	5.5	Brown and tan silty clayey sand/caliche	Y ✓ N		
	5.5	9.0	3.5	Light brown sandstone	Y ✓ N		
	9.0	14.0	5.0	Green brown sandy clay	Y ✓ N		
	14.0	16.0	2.0	Light tan silty sandy clay	Y ✓ N		
	16.0	20.0	4.0	Yellow brown sandy clay	Y ✓ N		
	20.0	28.0	8.0	Brown sandy clay	Y ✓ N		
	28.0	40.0	12.0	Molded brown, green and tan silty clay/shell	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	0.00
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: Chlorides and hydrocarbon present							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: William B. Atkins							
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.						
				John W. White	01/04/2022		
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE			

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	

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

June 28, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: Hornbaker BA Battery

OrderNo.: 2106711

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 35 sample(s) on 6/12/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-001

Collection Date: 6/10/2021 8:20:00 AM

Client Sample ID: TP1-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2600	150		mg/Kg	50	6/17/2021 5:10:12 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	9500	440		mg/Kg	50	6/15/2021 7:36:04 PM	60612
Motor Oil Range Organics (MRO)	6400	2200		mg/Kg	50	6/15/2021 7:36:04 PM	60612
Surr: DNOP	0	70-130	S	%Rec	50	6/15/2021 7:36:04 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1100	24		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Surr: BFB	692	70-130	S	%Rec	5	6/15/2021 7:28:57 PM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	5.2	0.12		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Toluene	20	0.24		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Ethylbenzene	17	0.24		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Xylenes, Total	36	0.49		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Surr: 4-Bromofluorobenzene	172	70-130	S	%Rec	5	6/15/2021 7:28:57 PM	60591

Lab ID: 2106711-002

Collection Date: 6/10/2021 8:40:00 AM

Client Sample ID: TP2-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1400	60		mg/Kg	20	6/16/2021 7:08:27 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2021 5:17:40 PM	60612
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 5:17:40 PM	60612
Surr: DNOP	76.1	70-130		%Rec	1	6/15/2021 5:17:40 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Surr: BFB	107	70-130		%Rec	1	6/15/2021 8:39:41 PM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Toluene	ND	0.049		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/15/2021 8:39:41 PM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-003

Collection Date: 6/10/2021 8:50:00 AM

Client Sample ID: TP2-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	570	60		mg/Kg	20	6/16/2021 7:20:52 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	48	9.7		mg/Kg	1	6/23/2021 5:38:52 PM	60612
Motor Oil Range Organics (MRO)	49	48		mg/Kg	1	6/23/2021 5:38:52 PM	60612
Surr: DNOP	112	70-130		%Rec	1	6/23/2021 5:38:52 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Surr: BFB	114	70-130		%Rec	1	6/15/2021 9:03:09 PM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Toluene	ND	0.050		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Xylenes, Total	ND	0.10		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/15/2021 9:03:09 PM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-004

Collection Date: 6/10/2021 9:00:00 AM

Client Sample ID: TP3-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1500	60		mg/Kg	20	6/16/2021 7:33:16 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	200	10		mg/Kg	1	6/23/2021 3:51:04 PM	60612
Motor Oil Range Organics (MRO)	430	50		mg/Kg	1	6/23/2021 3:51:04 PM	60612
Surr: DNOP	118	70-130		%Rec	1	6/23/2021 3:51:04 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Surr: BFB	103	70-130		%Rec	5	6/15/2021 9:26:41 PM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Toluene	ND	0.25		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Ethylbenzene	ND	0.25		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Xylenes, Total	ND	0.50		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	5	6/15/2021 9:26:41 PM	60591

Lab ID: 2106711-005

Collection Date: 6/10/2021 9:10:00 AM

Client Sample ID: TP3-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	980	60		mg/Kg	20	6/16/2021 7:45:41 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	100	9.7		mg/Kg	1	6/21/2021 4:55:00 PM	60784
Motor Oil Range Organics (MRO)	180	49		mg/Kg	1	6/21/2021 4:55:00 PM	60784
Surr: DNOP	96.4	70-130		%Rec	1	6/21/2021 4:55:00 PM	60784
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Surr: BFB	105	70-130		%Rec	5	6/15/2021 9:50:07 PM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Toluene	ND	0.25		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Ethylbenzene	ND	0.25		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Xylenes, Total	ND	0.50		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	5	6/15/2021 9:50:07 PM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-006

Collection Date: 6/10/2021 9:20:00 AM

Client Sample ID: TP4-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/16/2021 7:58:06 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/21/2021 4:30:25 PM	60784
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2021 4:30:25 PM	60784
Surr: DNOP	73.1	70-130		%Rec	1	6/21/2021 4:30:25 PM	60784
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Surr: BFB	105	70-130		%Rec	1	6/15/2021 11:23:53 PM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Toluene	ND	0.049		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	6/15/2021 11:23:53 PM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-007

Collection Date: 6/10/2021 9:25:00 AM

Client Sample ID: TP4-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	130	60		mg/Kg	20	6/16/2021 8:10:31 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2021 3:49:38 PM	60612
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 3:49:38 PM	60612
Surr: DNOP	82.0	70-130		%Rec	1	6/15/2021 3:49:38 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Surr: BFB	104	70-130		%Rec	1	6/15/2021 11:47:34 PM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Toluene	ND	0.049		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	6/15/2021 11:47:34 PM	60591

Lab ID: 2106711-008

Collection Date: 6/10/2021 9:30:00 AM

Client Sample ID: TP5-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3400	150		mg/Kg	50	6/17/2021 5:22:37 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/15/2021 4:02:15 PM	60612
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/15/2021 4:02:15 PM	60612
Surr: DNOP	85.6	70-130		%Rec	1	6/15/2021 4:02:15 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 12:10:54 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	6/16/2021 12:10:54 AM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-009

Collection Date: 6/10/2021 9:40:00 AM

Client Sample ID: TP5-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2100	150		mg/Kg	50	6/17/2021 5:35:02 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	6/15/2021 4:14:54 PM	60612
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/15/2021 4:14:54 PM	60612
Surr: DNOP	80.2	70-130		%Rec	1	6/15/2021 4:14:54 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 12:34:17 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	6/16/2021 12:34:17 AM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-010

Collection Date: 6/10/2021 9:45:00 AM

Client Sample ID: TP6-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	7200	300		mg/Kg	100	6/17/2021 5:47:26 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 4:27:34 PM	60612
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 4:27:34 PM	60612
Surr: DNOP	78.8	70-130		%Rec	1	6/15/2021 4:27:34 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 12:57:46 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	6/16/2021 12:57:46 AM	60591

Lab ID: 2106711-011

Collection Date: 6/10/2021 9:55:00 AM

Client Sample ID: TP6-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4000	150		mg/Kg	50	6/17/2021 5:59:50 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/15/2021 4:40:12 PM	60612
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/15/2021 4:40:12 PM	60612
Surr: DNOP	83.5	70-130		%Rec	1	6/15/2021 4:40:12 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Surr: BFB	104	70-130		%Rec	1	6/16/2021 1:21:22 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	6/16/2021 1:21:22 AM	60591

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	Value above quantitation range
	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			

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-012

Collection Date: 6/10/2021 10:00:00 AM

Client Sample ID: TP7-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1100	60		mg/Kg	20	6/16/2021 9:37:21 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/15/2021 4:52:36 PM	60612
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2021 4:52:36 PM	60612
Surr: DNOP	80.2	70-130		%Rec	1	6/15/2021 4:52:36 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Surr: BFB	104	70-130		%Rec	1	6/16/2021 1:44:49 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	6/16/2021 1:44:49 AM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-013

Collection Date: 6/10/2021 10:05:00 AM

Client Sample ID: TP7-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	280	60		mg/Kg	20	6/16/2021 9:49:46 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2021 5:30:17 PM	60612
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 5:30:17 PM	60612
Surr: DNOP	74.6	70-130		%Rec	1	6/15/2021 5:30:17 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Surr: BFB	105	70-130		%Rec	1	6/16/2021 2:08:14 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Toluene	ND	0.050		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	6/16/2021 2:08:14 AM	60591

Lab ID: 2106711-014

Collection Date: 6/10/2021 10:10:00 AM

Client Sample ID: TP8-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/16/2021 10:02:11 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/15/2021 5:42:52 PM	60612
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2021 5:42:52 PM	60612
Surr: DNOP	76.0	70-130		%Rec	1	6/15/2021 5:42:52 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Surr: BFB	105	70-130		%Rec	5	6/16/2021 2:31:39 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Toluene	ND	0.25		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Ethylbenzene	ND	0.25		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Xylenes, Total	ND	0.50		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	5	6/16/2021 2:31:39 AM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-015

Collection Date: 6/10/2021 10:15:00 AM

Client Sample ID: TP8-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	250	60		mg/Kg	20	6/16/2021 10:14:35 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 5:55:42 PM	60612
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 5:55:42 PM	60612
Surr: DNOP	82.1	70-130		%Rec	1	6/15/2021 5:55:42 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 2:55:01 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Toluene	ND	0.050		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	6/16/2021 2:55:01 AM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-016

Collection Date: 6/10/2021 10:20:00 AM

Client Sample ID: TP9-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3900	150		mg/Kg	50	6/17/2021 6:12:15 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/17/2021 3:51:56 AM	60612
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/17/2021 3:51:56 AM	60612
Surr: DNOP	58.4	70-130	S	%Rec	1	6/17/2021 3:51:56 AM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Surr: BFB	105	70-130		%Rec	1	6/16/2021 3:41:53 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Xylenes, Total	ND	0.097		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	6/16/2021 3:41:53 AM	60591

Lab ID: 2106711-017

Collection Date: 6/10/2021 10:25:00 AM

Client Sample ID: TP9-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3200	150		mg/Kg	50	6/17/2021 6:24:40 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2021 6:21:02 PM	60612
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 6:21:02 PM	60612
Surr: DNOP	79.2	70-130		%Rec	1	6/15/2021 6:21:02 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 4:05:23 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	6/16/2021 4:05:23 AM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-018

Collection Date: 6/10/2021 10:40:00 AM

Client Sample ID: TP10-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	6/16/2021 11:16:37 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/21/2021 5:44:00 PM	60784
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2021 5:44:00 PM	60784
Surr: DNOP	77.6	70-130		%Rec	1	6/21/2021 5:44:00 PM	60784
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Surr: BFB	107	70-130		%Rec	5	6/16/2021 4:28:49 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Toluene	ND	0.25		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Ethylbenzene	ND	0.25		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Xylenes, Total	ND	0.50		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	5	6/16/2021 4:28:49 AM	60591

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-019

Collection Date: 6/10/2021 10:45:00 AM

Client Sample ID: TP10-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	320	60		mg/Kg	20	6/16/2021 11:29:02 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2021 6:46:11 PM	60612
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 6:46:11 PM	60612
Surr: DNOP	89.3	70-130		%Rec	1	6/15/2021 6:46:11 PM	60612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 4:52:15 AM	60591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	6/16/2021 4:52:15 AM	60591

Lab ID: 2106711-020

Collection Date: 6/10/2021 11:00:00 AM

Client Sample ID: TP11-1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1900	60		mg/Kg	20	6/17/2021 12:06:15 AM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2021 5:15:28 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 5:15:28 PM	60613
Surr: DNOP	98.7	70-130		%Rec	1	6/15/2021 5:15:28 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Surr: BFB	110	70-130		%Rec	1	6/16/2021 3:23:29 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 3:23:29 PM	60593

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	Value above quantitation range
		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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-021

Collection Date: 6/10/2021 11:15:00 AM

Client Sample ID: TP12-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/16/2021 9:37:42 AM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/21/2021 6:08:32 PM	60784
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2021 6:08:32 PM	60784
Surr: DNOP	76.1	70-130		%Rec	1	6/21/2021 6:08:32 PM	60784
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Surr: BFB	111	70-130		%Rec	1	6/16/2021 3:47:25 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 3:47:25 PM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-022

Collection Date: 6/10/2021 11:20:00 AM

Client Sample ID: TP12-1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	90	61		mg/Kg	20	6/16/2021 10:14:54 AM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/15/2021 6:53:43 PM	60613
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 6:53:43 PM	60613
Surr: DNOP	103	70-130		%Rec	1	6/15/2021 6:53:43 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Surr: BFB	111	70-130		%Rec	1	6/16/2021 4:11:20 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 4:11:20 PM	60593

Lab ID: 2106711-023

Collection Date: 6/10/2021 12:25:00 PM

Client Sample ID: TP13-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4600	150		mg/Kg	50	6/18/2021 2:09:48 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 7:18:25 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 7:18:25 PM	60613
Surr: DNOP	96.8	70-130		%Rec	1	6/15/2021 7:18:25 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Surr: BFB	110	70-130		%Rec	1	6/16/2021 4:35:12 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 4:35:12 PM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-024

Collection Date: 6/10/2021 12:30:00 PM

Client Sample ID: TP14-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/16/2021 2:47:53 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/17/2021 5:05:07 AM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2021 5:05:07 AM	60613
Surr: DNOP	75.6	70-130		%Rec	1	6/17/2021 5:05:07 AM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Surr: BFB	110	70-130		%Rec	1	6/16/2021 4:59:08 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	6/16/2021 4:59:08 PM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-025

Collection Date: 6/10/2021 12:35:00 PM

Client Sample ID: TP14-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	310	60		mg/Kg	20	6/16/2021 3:00:18 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2021 8:07:43 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 8:07:43 PM	60613
Surr: DNOP	93.9	70-130		%Rec	1	6/15/2021 8:07:43 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Surr: BFB	110	70-130		%Rec	1	6/16/2021 5:23:03 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	6/16/2021 5:23:03 PM	60593

Lab ID: 2106711-026

Collection Date: 6/10/2021 12:40:00 PM

Client Sample ID: TP15-1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2400	60		mg/Kg	20	6/16/2021 3:12:42 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 8:32:15 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 8:32:15 PM	60613
Surr: DNOP	81.2	70-130		%Rec	1	6/15/2021 8:32:15 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Surr: BFB	111	70-130		%Rec	1	6/16/2021 5:46:55 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 5:46:55 PM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-027

Collection Date: 6/10/2021 12:55:00 PM

Client Sample ID: TP16-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/16/2021 3:49:54 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/15/2021 8:56:48 PM	60613
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2021 8:56:48 PM	60613
Surr: DNOP	83.3	70-130		%Rec	1	6/15/2021 8:56:48 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Surr: BFB	102	70-130		%Rec	1	6/16/2021 10:30:20 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	6/16/2021 10:30:20 PM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-028

Collection Date: 6/10/2021 1:00:00 PM

Client Sample ID: TP16-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	150	60		mg/Kg	20	6/16/2021 4:02:19 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2021 9:21:16 PM	60613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 9:21:16 PM	60613
Surr: DNOP	70.7	70-130		%Rec	1	6/15/2021 9:21:16 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Surr: BFB	103	70-130		%Rec	1	6/16/2021 10:53:46 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	6/16/2021 10:53:46 PM	60593

Lab ID: 2106711-029

Collection Date: 6/10/2021 1:10:00 PM

Client Sample ID: TP17-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2700	150		mg/Kg	50	6/18/2021 7:25:24 AM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/15/2021 9:45:49 PM	60613
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 9:45:49 PM	60613
Surr: DNOP	110	70-130		%Rec	1	6/15/2021 9:45:49 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Surr: BFB	102	70-130		%Rec	1	6/16/2021 11:17:10 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Xylenes, Total	ND	0.097		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	6/16/2021 11:17:10 PM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-030

Collection Date: 6/10/2021 1:25:00 PM

Client Sample ID: TP18-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/16/2021 4:27:09 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 10:10:18 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 10:10:18 PM	60613
Surr: DNOP	76.0	70-130		%Rec	1	6/15/2021 10:10:18 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Surr: BFB	103	70-130		%Rec	1	6/16/2021 11:40:29 PM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	6/16/2021 11:40:29 PM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-031

Collection Date: 6/10/2021 1:30:00 PM

Client Sample ID: TP18-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	66	60		mg/Kg	20	6/16/2021 4:39:33 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2021 10:34:55 PM	60613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 10:34:55 PM	60613
Surr: DNOP	110	70-130		%Rec	1	6/15/2021 10:34:55 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Surr: BFB	102	70-130		%Rec	1	6/17/2021 12:03:54 AM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Toluene	ND	0.048		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Ethylbenzene	ND	0.048		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Xylenes, Total	ND	0.097		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	6/17/2021 12:03:54 AM	60593

Lab ID: 2106711-032

Collection Date: 6/10/2021 1:40:00 PM

Client Sample ID: TP19-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2100	150		mg/Kg	50	6/18/2021 7:37:48 AM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2021 10:59:23 PM	60613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 10:59:23 PM	60613
Surr: DNOP	122	70-130		%Rec	1	6/15/2021 10:59:23 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Surr: BFB	103	70-130		%Rec	1	6/17/2021 12:27:20 AM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Toluene	ND	0.049		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/17/2021 12:27:20 AM	60593

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-033

Collection Date: 6/10/2021 1:45:00 PM

Client Sample ID: TP19-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	870	61		mg/Kg	20	6/16/2021 5:04:23 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2021 11:23:49 PM	60613
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 11:23:49 PM	60613
Surr: DNOP	95.6	70-130		%Rec	1	6/15/2021 11:23:49 PM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Surr: BFB	103	70-130		%Rec	1	6/17/2021 12:50:39 AM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Toluene	ND	0.049		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Xylenes, Total	ND	0.097		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	6/17/2021 12:50:39 AM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-034

Collection Date: 6/10/2021 1:55:00 PM

Client Sample ID: TP20-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	6/16/2021 5:16:48 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/17/2021 5:29:12 AM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2021 5:29:12 AM	60613
Surr: DNOP	74.5	70-130		%Rec	1	6/17/2021 5:29:12 AM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Surr: BFB	103	70-130		%Rec	1	6/17/2021 1:14:06 AM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Toluene	ND	0.049		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	6/17/2021 1:14:06 AM	60593

Lab ID: 2106711-035

Collection Date: 6/10/2021 2:00:00 PM

Client Sample ID: TP20-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	310	60		mg/Kg	20	6/16/2021 5:29:13 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/17/2021 5:53:20 AM	60613
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/17/2021 5:53:20 AM	60613
Surr: DNOP	93.6	70-130		%Rec	1	6/17/2021 5:53:20 AM	60613
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Surr: BFB	103	70-130		%Rec	1	6/17/2021 1:37:28 AM	60593
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Toluene	ND	0.050		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Xylenes, Total	ND	0.099		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/17/2021 1:37:28 AM	60593

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

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	Value above quantitation range
	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		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: MB-60667	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60667	RunNo: 79104								
Prep Date: 6/16/2021	Analysis Date: 6/16/2021	SeqNo: 2777576 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60667	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60667	RunNo: 79104								
Prep Date: 6/16/2021	Analysis Date: 6/16/2021	SeqNo: 2777578 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: MB-60648	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60648	RunNo: 79104								
Prep Date: 6/15/2021	Analysis Date: 6/16/2021	SeqNo: 2777638 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60648	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60648	RunNo: 79104								
Prep Date: 6/15/2021	Analysis Date: 6/16/2021	SeqNo: 2777639 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	90	110			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: 2106711-020AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP11-1	Batch ID: 60613	RunNo: 79118								
Prep Date: 6/14/2021	Analysis Date: 6/15/2021	SeqNo: 2777058 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.7	48.31	0	96.0	15	184			
Surr: DNOP	4.7		4.831		98.2	70	130			

Sample ID: 2106711-020AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP11-1	Batch ID: 60613	RunNo: 79118								
Prep Date: 6/14/2021	Analysis Date: 6/15/2021	SeqNo: 2777059 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.41	0	97.8	15	184	4.03	23.9	
Surr: DNOP	4.9		4.941		99.8	70	130	0	0	

Sample ID: LCS-60613	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60613	RunNo: 79118								
Prep Date: 6/14/2021	Analysis Date: 6/15/2021	SeqNo: 2777078 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	68.9	141			
Surr: DNOP	5.5		5.000		109	70	130			

Sample ID: MB-60613	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60613	RunNo: 79118								
Prep Date: 6/14/2021	Analysis Date: 6/15/2021	SeqNo: 2777079 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	10		10.00		101	70	130			

Sample ID: MB-60612	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60612	RunNo: 79081								
Prep Date: 6/14/2021	Analysis Date: 6/15/2021	SeqNo: 2777096 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	11		10.00		109	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106711

28-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: LCS-60612	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60612			RunNo: 79081						
Prep Date: 6/14/2021	Analysis Date: 6/15/2021			SeqNo: 2777097		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	88.1	68.9	141			
Surr: DNOP	4.2		5.000		85.0	70	130			

Sample ID: MB-60764	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60764			RunNo: 79239						
Prep Date: 6/21/2021	Analysis Date: 6/22/2021			SeqNo: 2783029		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.7	70	130			

Sample ID: LCS-60764	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60764			RunNo: 79239						
Prep Date: 6/21/2021	Analysis Date: 6/22/2021			SeqNo: 2783030		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.5	70	130			

Sample ID: MB-60784	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60784			RunNo: 79243						
Prep Date: 6/21/2021	Analysis Date: 6/21/2021			SeqNo: 2783734		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		96.3	70	130			

Sample ID: LCS-60784	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60784			RunNo: 79243						
Prep Date: 6/21/2021	Analysis Date: 6/21/2021			SeqNo: 2783735		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	95.8	68.9	141			
Surr: DNOP	4.5		5.000		89.1	70	130			

Sample ID: 2106711-006AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: TP4-S	Batch ID: 60784			RunNo: 79243						
Prep Date: 6/21/2021	Analysis Date: 6/21/2021			SeqNo: 2783736		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.7	48.31	0	83.5	15	184			

Qualifiers:

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

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

Page 27 of 32

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: 2106711-006AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP4-S	Batch ID: 60784	RunNo: 79243								
Prep Date: 6/21/2021	Analysis Date: 6/21/2021	SeqNo: 2783736			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.1		4.831		64.1	70	130			S

Sample ID: 2106711-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP4-S	Batch ID: 60784	RunNo: 79243								
Prep Date: 6/21/2021	Analysis Date: 6/21/2021	SeqNo: 2783737			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.7	48.69	0	79.4	15	184	4.21	23.9	
Surr: DNOP	2.9		4.869		59.7	70	130	0	0	S

Sample ID: MB-60765	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60765	RunNo: 79239								
Prep Date: 6/21/2021	Analysis Date: 6/23/2021	SeqNo: 2784807			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3		10.00		73.0	70	130			

Sample ID: LCS-60765	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60765	RunNo: 79239								
Prep Date: 6/21/2021	Analysis Date: 6/23/2021	SeqNo: 2784808			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.2	70	130			

Sample ID: MB-60870	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60870	RunNo: 79239								
Prep Date: 6/23/2021	Analysis Date: 6/24/2021	SeqNo: 2789223			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	70	130			

Sample ID: LCS-60870	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60870	RunNo: 79239								
Prep Date: 6/23/2021	Analysis Date: 6/24/2021	SeqNo: 2789224			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: mb-60591	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60591			RunNo: 79078						
Prep Date: 6/12/2021	Analysis Date: 6/15/2021			SeqNo: 2775966		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		105	70	130			

Sample ID: lcs-60591	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60591			RunNo: 79078						
Prep Date: 6/12/2021	Analysis Date: 6/15/2021			SeqNo: 2775967		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		122	70	130			

Sample ID: mb-60593	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60593			RunNo: 79119						
Prep Date: 6/12/2021	Analysis Date: 6/16/2021			SeqNo: 2777465		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-60593	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60593			RunNo: 79119						
Prep Date: 6/12/2021	Analysis Date: 6/16/2021			SeqNo: 2777466		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: 2106711-020ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP11-1	Batch ID: 60593			RunNo: 79119						
Prep Date: 6/12/2021	Analysis Date: 6/16/2021			SeqNo: 2777468		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.68	0	99.1	61.3	114			
Surr: BFB	1100		987.2		116	70	130			

Sample ID: 2106711-020amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP11-1	Batch ID: 60593			RunNo: 79119						
Prep Date: 6/12/2021	Analysis Date: 6/16/2021			SeqNo: 2777469		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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106711

28-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: 2106711-020amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP11-1	Batch ID: 60593	RunNo: 79119								
Prep Date: 6/12/2021	Analysis Date: 6/16/2021	SeqNo: 2777469 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.70	0	101	61.3	114	1.86	20	
Surr: BFB	1100		988.1		116	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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: mb-60591	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60591	RunNo: 79078								
Prep Date: 6/12/2021	Analysis Date: 6/15/2021	SeqNo: 2776013 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		99.2	70	130			

Sample ID: LCS-60591	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60591	RunNo: 79078								
Prep Date: 6/12/2021	Analysis Date: 6/15/2021	SeqNo: 2776014 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.2	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 2106711-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP1-6	Batch ID: 60591	RunNo: 79078								
Prep Date: 6/12/2021	Analysis Date: 6/15/2021	SeqNo: 2776017 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	6.4	0.12	0.9843	5.246	112	80	120			
Toluene	21	0.25	0.9843	19.68	183	80	120			S
Ethylbenzene	19	0.25	0.9843	16.86	168	80	120			S
Xylenes, Total	41	0.49	2.953	35.98	160	80	120			S
Surr: 4-Bromofluorobenzene	8.6		4.921		174	70	130			S

Sample ID: 2106711-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP1-6	Batch ID: 60591	RunNo: 79078								
Prep Date: 6/12/2021	Analysis Date: 6/15/2021	SeqNo: 2776018 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	6.1	0.12	0.9852	5.246	84.7	80	120	4.34	20	
Toluene	21	0.25	0.9852	19.68	99.5	80	120	3.90	20	
Ethylbenzene	18	0.25	0.9852	16.86	105	80	120	3.37	20	
Xylenes, Total	40	0.49	2.956	35.98	126	80	120	2.45	20	S
Surr: 4-Bromofluorobenzene	8.5		4.926		173	70	130	0	0	S

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: mb-60593	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60593	RunNo: 79119								
Prep Date: 6/12/2021	Analysis Date: 6/16/2021	SeqNo: 2777498 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	0.97		1.000		97.4	70	130			

Sample ID: LCS-60593	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60593	RunNo: 79119								
Prep Date: 6/12/2021	Analysis Date: 6/16/2021	SeqNo: 2777499 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: 2106711-021ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP12-S	Batch ID: 60593	RunNo: 79119								
Prep Date: 6/12/2021	Analysis Date: 6/16/2021	SeqNo: 2777502 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9911	0	99.8	80	120			
Toluene	1.0	0.050	0.9911	0	104	80	120			
Ethylbenzene	1.0	0.050	0.9911	0	104	80	120			
Xylenes, Total	3.1	0.099	2.973	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.97		0.9911		98.1	70	130			

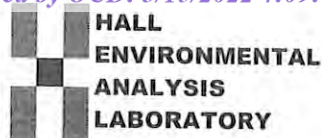
Sample ID: 2106711-021amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP12-S	Batch ID: 60593	RunNo: 79119								
Prep Date: 6/12/2021	Analysis Date: 6/16/2021	SeqNo: 2777503 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.0	80	120	0.883	20	
Toluene	1.0	0.050	1.000	0	104	80	120	0.616	20	
Ethylbenzene	1.1	0.050	1.000	0	105	80	120	1.74	20	
Xylenes, Total	3.2	0.10	3.000	0	105	80	120	1.14	20	
Surr: 4-Bromofluorobenzene	0.97		1.000		97.5	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

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

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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2106711

RcptNo: 1

Received By: Isaiah Ortiz

6/12/2021 7:56:00 AM

I.Ox

Completed By: Isaiah Ortiz

6/12/2021 9:17:26 AM

I.Ox

Reviewed By: @m 06/12/2021

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

IO
6-12-21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			



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

June 24, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Hornbaker BA Battery

OrderNo.: 2106816

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 12 sample(s) on 6/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-001

Collection Date: 6/11/2021 9:00:00 AM

Client Sample ID: TP5-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2900	150		mg/Kg	50	6/21/2021 7:44:28 AM	60733
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/19/2021 12:39:13 AM	60694
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 12:39:13 AM	60694
Surr: DNOP	97.9	70-130		%Rec	1	6/19/2021 12:39:13 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Surr: BFB	103	70-130		%Rec	1	6/19/2021 3:03:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Toluene	ND	0.047		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Xylenes, Total	ND	0.095		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	6/19/2021 3:03:00 AM	60684

Lab ID: 2106816-002

Collection Date: 6/11/2021 9:20:00 AM

Client Sample ID: TP5-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	150		mg/Kg	50	6/21/2021 7:56:53 AM	60733
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/19/2021 1:03:48 AM	60694
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/19/2021 1:03:48 AM	60694
Surr: DNOP	100	70-130		%Rec	1	6/19/2021 1:03:48 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Surr: BFB	101	70-130		%Rec	1	6/19/2021 4:03:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Toluene	ND	0.047		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Xylenes, Total	ND	0.094		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	6/19/2021 4:03:00 AM	60684

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	Value above quantitation range
	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			

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-003

Collection Date: 6/11/2021 10:05:00 AM

Client Sample ID: TP6-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4900	150		mg/Kg	50	6/21/2021 8:09:16 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/19/2021 1:28:27 AM	60694
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/19/2021 1:28:27 AM	60694
Surr: DNOP	92.9	70-130		%Rec	1	6/19/2021 1:28:27 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Surr: BFB	103	70-130		%Rec	1	6/19/2021 4:23:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Toluene	ND	0.048		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	6/19/2021 4:23:00 AM	60684

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-004

Collection Date: 6/11/2021 11:00:00 AM

Client Sample ID: TP6-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	920	60		mg/Kg	20	6/19/2021 4:38:25 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2021 1:52:55 AM	60694
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/19/2021 1:52:55 AM	60694
Surr: DNOP	80.2	70-130		%Rec	1	6/19/2021 1:52:55 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Surr: BFB	102	70-130		%Rec	1	6/19/2021 4:43:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Toluene	ND	0.048		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Xylenes, Total	ND	0.096		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	6/19/2021 4:43:00 AM	60684

Lab ID: 2106816-005

Collection Date: 6/11/2021 11:20:00 AM

Client Sample ID: TP9-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	710	60		mg/Kg	20	6/19/2021 4:50:49 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/19/2021 2:17:26 AM	60694
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2021 2:17:26 AM	60694
Surr: DNOP	92.6	70-130		%Rec	1	6/19/2021 2:17:26 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Surr: BFB	105	70-130		%Rec	1	6/19/2021 5:03:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Toluene	ND	0.050		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Ethylbenzene	ND	0.050		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Xylenes, Total	ND	0.10		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	6/19/2021 5:03:00 AM	60684

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-006

Collection Date: 6/11/2021 11:50:00 AM

Client Sample ID: TP11-3

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1400	59		mg/Kg	20	6/19/2021 5:03:13 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/19/2021 2:41:51 AM	60694
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/19/2021 2:41:51 AM	60694
Surr: DNOP	92.8	70-130		%Rec	1	6/19/2021 2:41:51 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Surr: BFB	104	70-130		%Rec	1	6/19/2021 5:22:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Toluene	ND	0.049		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Xylenes, Total	ND	0.099		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	6/19/2021 5:22:00 AM	60684

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-007

Collection Date: 6/11/2021 12:30:00 PM

Client Sample ID: TP11-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	610	60		mg/Kg	20	6/19/2021 5:40:27 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2021 3:06:32 AM	60694
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2021 3:06:32 AM	60694
Surr: DNOP	82.6	70-130		%Rec	1	6/19/2021 3:06:32 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Surr: BFB	96.6	70-130		%Rec	1	6/19/2021 5:42:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Toluene	ND	0.049		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	6/19/2021 5:42:00 AM	60684

Lab ID: 2106816-008

Collection Date: 6/11/2021 12:50:00 PM

Client Sample ID: TP13-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5200	300		mg/Kg	100	6/21/2021 8:21:41 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/19/2021 3:31:06 AM	60694
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 3:31:06 AM	60694
Surr: DNOP	91.6	70-130		%Rec	1	6/19/2021 3:31:06 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Surr: BFB	98.3	70-130		%Rec	1	6/19/2021 6:02:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Toluene	ND	0.046		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Ethylbenzene	ND	0.046		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Xylenes, Total	ND	0.091		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/19/2021 6:02:00 AM	60684

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	Value above quantitation range
		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		

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-009

Collection Date: 6/11/2021 1:20:00 PM

Client Sample ID: TP15-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3300	150		mg/Kg	50	6/21/2021 8:34:05 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	900	19		mg/Kg	2	6/21/2021 9:50:10 PM	60694
Motor Oil Range Organics (MRO)	400	97		mg/Kg	2	6/21/2021 9:50:10 PM	60694
Surr: DNOP	109	70-130		%Rec	2	6/21/2021 9:50:10 PM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	34	4.8		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Surr: BFB	207	70-130	S	%Rec	1	6/19/2021 6:22:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Toluene	ND	0.048		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Xylenes, Total	0.42	0.096		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Surr: 4-Bromofluorobenzene	136	70-130	S	%Rec	1	6/19/2021 6:22:00 AM	60684

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-010

Collection Date: 6/11/2021 1:30:00 PM

Client Sample ID: TP15-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	60		mg/Kg	20	6/19/2021 6:17:40 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	800	19		mg/Kg	2	6/21/2021 10:14:34 PM	60694
Motor Oil Range Organics (MRO)	340	95		mg/Kg	2	6/21/2021 10:14:34 PM	60694
Surr: DNOP	107	70-130		%Rec	2	6/21/2021 10:14:34 PM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	43	4.7		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Surr: BFB	217	70-130	S	%Rec	1	6/19/2021 7:42:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Toluene	ND	0.047		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Ethylbenzene	0.054	0.047		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Xylenes, Total	0.56	0.095		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Surr: 4-Bromofluorobenzene	146	70-130	S	%Rec	1	6/19/2021 7:42:00 AM	60684

Lab ID: 2106816-011

Collection Date: 6/11/2021 1:50:00 PM

Client Sample ID: TP17-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1600	59		mg/Kg	20	6/19/2021 6:30:04 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2021 4:44:37 AM	60694
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2021 4:44:37 AM	60694
Surr: DNOP	88.3	70-130		%Rec	1	6/19/2021 4:44:37 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Surr: BFB	111	70-130		%Rec	1	6/19/2021 8:02:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Toluene	ND	0.047		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Xylenes, Total	ND	0.095		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	6/19/2021 8:02:00 AM	60684

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-012

Collection Date: 6/11/2021 2:05:00 PM

Client Sample ID: TP19-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	720	60		mg/Kg	20	6/19/2021 6:42:29 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/19/2021 5:09:08 AM	60694
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 5:09:08 AM	60694
Surr: DNOP	93.1	70-130		%Rec	1	6/19/2021 5:09:08 AM	60694
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Surr: BFB	104	70-130		%Rec	1	6/19/2021 8:21:00 AM	60684
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Toluene	ND	0.048		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	6/19/2021 8:21:00 AM	60684

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	Value above quantitation range
	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		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106816

24-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: MB-60733	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60733	RunNo: 79166								
Prep Date: 6/18/2021	Analysis Date: 6/18/2021	SeqNo: 2780115 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60733	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60733	RunNo: 79166								
Prep Date: 6/18/2021	Analysis Date: 6/18/2021	SeqNo: 2780116 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.1	90	110			

Sample ID: MB-60736	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60736	RunNo: 79166								
Prep Date: 6/18/2021	Analysis Date: 6/18/2021	SeqNo: 2780181 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60736	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60736	RunNo: 79166								
Prep Date: 6/18/2021	Analysis Date: 6/18/2021	SeqNo: 2780182 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106816

24-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: LCS-60694	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60694			RunNo: 79223						
Prep Date: 6/17/2021	Analysis Date: 6/18/2021			SeqNo: 2781759		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	91.9	68.9	141			
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID: LCS-60743	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60743			RunNo: 79223						
Prep Date: 6/18/2021	Analysis Date: 6/19/2021			SeqNo: 2781761		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: LCS-60744	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60744			RunNo: 79223						
Prep Date: 6/18/2021	Analysis Date: 6/20/2021			SeqNo: 2781762		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.5	70	130			

Sample ID: MB-60694	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60694			RunNo: 79223						
Prep Date: 6/17/2021	Analysis Date: 6/18/2021			SeqNo: 2781763		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	9.2		10.00		92.0	70	130			

Sample ID: MB-60743	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60743			RunNo: 79223						
Prep Date: 6/18/2021	Analysis Date: 6/19/2021			SeqNo: 2781765		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.4	70	130			

Sample ID: MB-60744	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60744			RunNo: 79223						
Prep Date: 6/18/2021	Analysis Date: 6/20/2021			SeqNo: 2781766		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		99.3	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106816

24-Jun-21

Client: GHD**Project:** Hornbaker BA Battery

Sample ID: LCS-60684	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 60684		RunNo: 79188							
Prep Date: 6/16/2021	Analysis Date: 6/19/2021		SeqNo: 2780413		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1200		1000		117	70	130			

Sample ID: MB-60684	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 60684		RunNo: 79188							
Prep Date: 6/16/2021	Analysis Date: 6/19/2021		SeqNo: 2780414		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		103	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106816

24-Jun-21

Client: GHD**Project:** Hornbaker BA Battery

Sample ID: LCS-60684	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 60684			RunNo: 79188						
Prep Date: 6/16/2021	Analysis Date: 6/19/2021			SeqNo: 2781039			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	80	120			
Toluene	0.89	0.050	1.000	0	88.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	70	130			

Sample ID: MB-60684	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 60684			RunNo: 79188						
Prep Date: 6/16/2021	Analysis Date: 6/19/2021			SeqNo: 2781040			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	0.88		1.000		87.8	70	130			

Sample ID: 2106816-001ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: TP5-8	Batch ID: 60684			RunNo: 79188						
Prep Date: 6/16/2021	Analysis Date: 6/19/2021			SeqNo: 2781043			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.023	0.9107	0	86.4	80	120			
Toluene	0.79	0.046	0.9107	0	86.7	80	120			
Ethylbenzene	0.81	0.046	0.9107	0	88.8	80	120			
Xylenes, Total	2.4	0.091	2.732	0	87.7	80	120			
Surr: 4-Bromofluorobenzene	0.78		0.9107		85.2	70	130			

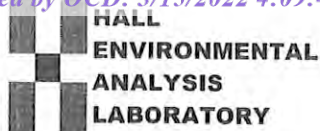
Sample ID: 2106816-001amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: TP5-8	Batch ID: 60684			RunNo: 79188						
Prep Date: 6/16/2021	Analysis Date: 6/19/2021			SeqNo: 2781044			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9794	0	88.6	80	120	9.68	20	
Toluene	0.87	0.049	0.9794	0	88.4	80	120	9.17	20	
Ethylbenzene	0.89	0.049	0.9794	0	90.7	80	120	9.37	20	
Xylenes, Total	2.6	0.098	2.938	0	89.8	80	120	9.67	20	
Surr: 4-Bromofluorobenzene	0.84		0.9794		85.9	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

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

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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2106816

RcptNo: 1

Received By: Juan Rojas 6/16/2021 7:35:00 AM

Completed By: Cheyenne Cason 6/16/2021 8:36:36 AM

Reviewed By: *IC* 6.16.21Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐13. Is it clear what analyses were requested? Yes ☒ No ☐14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *T.C. 6.16.21*Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

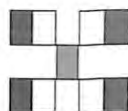
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				
2	0.2	Good				



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Chain-of-Custody Record			
Client: <u>GAD</u>			
Mailing Address: <u>324 W Main St, Suite 108, Astoria, OR 97103</u>			
Phone #: <u>(503) 377-4218</u>			
email or Fax#: <u>Zach.comine@GAD.com</u>			
QA/QC Package: <u>Becky Haskell @ GAD.com</u>			
☐ Standard ☐ Level 4 (Full Validation)			
Accreditation ☐ NELAP ☐ Other _____			
☐ EDD (Type) _____			
Date	Time	Matrix	Sample Request ID
06/12/20	0900	S	TPS-8
0920			TPS-10
1005			TPG-6
1100			TPG-10
1120			TP9-6
1150			TP11-3
1230			TP11-5
1250			TP13-5
1320			TPS-6
1330			TPS-10
1350			TP17-4
1405			TP19-6
Date:	Time:	Relinquished by:	Relinquished by:
06/15/24	1900		
Date:	Time:	Relinquished by:	Relinquished by:
06/15/24	1900		

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

June 29, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Hornbaker BA Battery

OrderNo.: 2106910

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/17/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-001

Collection Date: 6/15/2021 8:40:00 AM

Client Sample ID: TP3-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	750	59		mg/Kg	20	6/20/2021 2:33:37 PM	60753
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	38	8.5		mg/Kg	1	6/25/2021 9:11:49 AM	60742
Motor Oil Range Organics (MRO)	92	42		mg/Kg	1	6/25/2021 9:11:49 AM	60742
Surr: DNOP	97.4	70-130		%Rec	1	6/25/2021 9:11:49 AM	60742
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Surr: BFB	98.6	70-130		%Rec	1	6/20/2021 4:48:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Toluene	ND	0.049		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/20/2021 4:48:00 AM	60719

Lab ID: 2106910-002

Collection Date: 6/15/2021 8:45:00 AM

Client Sample ID: TP3-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	750	60		mg/Kg	20	6/20/2021 2:46:02 PM	60753
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	15	9.0		mg/Kg	1	6/20/2021 11:37:57 AM	60742
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/20/2021 11:37:57 AM	60742
Surr: DNOP	107	70-130		%Rec	1	6/20/2021 11:37:57 AM	60742
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Surr: BFB	97.0	70-130		%Rec	1	6/20/2021 5:08:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Toluene	ND	0.048		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Ethylbenzene	ND	0.048		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/20/2021 5:08:00 AM	60719

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-003

Collection Date: 6/15/2021 9:15:00 AM

Client Sample ID: TP2-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	150		mg/Kg	50	6/22/2021 5:21:19 PM	60753
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	14	9.0		mg/Kg	1	6/20/2021 12:26:20 PM	60742
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/20/2021 12:26:20 PM	60742
Surr: DNOP	104	70-130		%Rec	1	6/20/2021 12:26:20 PM	60742
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Surr: BFB	96.8	70-130		%Rec	1	6/20/2021 5:28:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Toluene	ND	0.050		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Xylenes, Total	ND	0.10		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	6/20/2021 5:28:00 AM	60719

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-004

Collection Date: 6/15/2021 9:45:00 AM

Client Sample ID: TP21-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/20/2021 3:10:51 PM	60753
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/23/2021 5:25:59 PM	60742
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/23/2021 5:25:59 PM	60742
Surr: DNOP	101	70-130		%Rec	1	6/23/2021 5:25:59 PM	60742
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Surr: BFB	107	70-130		%Rec	1	6/20/2021 5:47:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Toluene	ND	0.050		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Xylenes, Total	ND	0.10		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	6/20/2021 5:47:00 AM	60719

Lab ID: 2106910-005

Collection Date: 6/15/2021 9:50:00 AM

Client Sample ID: TP21-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/21/2021 6:42:03 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	6/19/2021 4:12:31 PM	60743
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/19/2021 4:12:31 PM	60743
Surr: DNOP	101	70-130		%Rec	1	6/19/2021 4:12:31 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Surr: BFB	101	70-130		%Rec	1	6/20/2021 6:07:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Toluene	ND	0.050		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Xylenes, Total	ND	0.099		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	6/20/2021 6:07:00 AM	60719

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-006

Collection Date: 6/15/2021 10:00:00 AM

Client Sample ID: TP22-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/21/2021 7:44:05 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2021 5:26:14 PM	60743
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2021 5:26:14 PM	60743
Surr: DNOP	92.7	70-130		%Rec	1	6/19/2021 5:26:14 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Surr: BFB	99.4	70-130		%Rec	1	6/20/2021 6:27:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Toluene	ND	0.049		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	6/20/2021 6:27:00 AM	60719

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-007

Collection Date: 6/15/2021 10:10:00 AM

Client Sample ID: TP22-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/21/2021 8:21:19 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	45	9.9		mg/Kg	1	6/23/2021 5:59:22 PM	60743
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	6/23/2021 5:59:22 PM	60743
Surr: DNOP	92.6	70-130		%Rec	1	6/23/2021 5:59:22 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Surr: BFB	102	70-130		%Rec	1	6/20/2021 6:47:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Toluene	ND	0.049		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Xylenes, Total	ND	0.099		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/20/2021 6:47:00 AM	60719

Lab ID: 2106910-008

Collection Date: 6/15/2021 10:15:00 AM

Client Sample ID: TP23-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5700	150		mg/Kg	50	6/22/2021 5:33:43 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/19/2021 6:15:24 PM	60743
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/19/2021 6:15:24 PM	60743
Surr: DNOP	99.2	70-130		%Rec	1	6/19/2021 6:15:24 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Surr: BFB	103	70-130		%Rec	1	6/20/2021 7:07:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Toluene	ND	0.050		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Xylenes, Total	ND	0.10		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	6/20/2021 7:07:00 AM	60719

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	Value above quantitation range
	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			

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-009

Collection Date: 6/15/2021 10:25:00 AM

Client Sample ID: TP23-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1700	60		mg/Kg	20	6/21/2021 8:46:07 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	6/19/2021 6:40:08 PM	60743
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/19/2021 6:40:08 PM	60743
Surr: DNOP	92.2	70-130		%Rec	1	6/19/2021 6:40:08 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Surr: BFB	102	70-130		%Rec	1	6/20/2021 7:27:00 AM	60719
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Toluene	ND	0.049		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	6/20/2021 7:27:00 AM	60719

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	Value above quantitation range
	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		

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Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-010

Collection Date: 6/15/2021 10:35:00 AM

Client Sample ID: TP23-9

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	820	60		mg/Kg	20	6/21/2021 8:58:31 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/19/2021 7:04:41 PM	60743
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/19/2021 7:04:41 PM	60743
Surr: DNOP	98.1	70-130		%Rec	1	6/19/2021 7:04:41 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Surr: BFB	96.8	70-130		%Rec	1	6/21/2021 9:15:03 PM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Toluene	ND	0.046		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Ethylbenzene	ND	0.046		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Xylenes, Total	ND	0.092		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	6/21/2021 9:15:03 PM	60726

Lab ID: 2106910-011

Collection Date: 6/15/2021 10:40:00 AM

Client Sample ID: TP23-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	710	61		mg/Kg	20	6/21/2021 9:10:56 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/19/2021 7:29:27 PM	60743
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 7:29:27 PM	60743
Surr: DNOP	99.4	70-130		%Rec	1	6/19/2021 7:29:27 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Surr: BFB	94.8	70-130		%Rec	1	6/21/2021 10:25:48 PM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Toluene	ND	0.046		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Ethylbenzene	ND	0.046		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Xylenes, Total	ND	0.092		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	6/21/2021 10:25:48 PM	60726

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	Value above quantitation range
	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			

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-012

Collection Date: 6/15/2021 11:00:00 AM

Client Sample ID: TP24-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	74	60		mg/Kg	20	6/21/2021 9:48:08 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/21/2021 8:11:51 PM	60743
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2021 8:11:51 PM	60743
Surr: DNOP	80.2	70-130		%Rec	1	6/21/2021 8:11:51 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Surr: BFB	96.7	70-130		%Rec	1	6/21/2021 11:36:13 PM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Toluene	ND	0.048		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Xylenes, Total	ND	0.095		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	6/21/2021 11:36:13 PM	60726

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-013

Collection Date: 6/15/2021 11:20:00 AM

Client Sample ID: TP24-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/21/2021 10:00:32 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/19/2021 8:18:43 PM	60743
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 8:18:43 PM	60743
Surr: DNOP	86.8	70-130		%Rec	1	6/19/2021 8:18:43 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Surr: BFB	95.1	70-130		%Rec	1	6/21/2021 11:59:38 PM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Toluene	ND	0.050		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	6/21/2021 11:59:38 PM	60726

Lab ID: 2106910-014

Collection Date: 6/15/2021 11:25:00 AM

Client Sample ID: TP25-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/21/2021 10:12:57 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/19/2021 8:43:17 PM	60743
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	6/19/2021 8:43:17 PM	60743
Surr: DNOP	71.0	70-130		%Rec	1	6/19/2021 8:43:17 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Surr: BFB	94.5	70-130		%Rec	1	6/22/2021 12:23:16 AM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Xylenes, Total	ND	0.098		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	6/22/2021 12:23:16 AM	60726

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-015

Collection Date: 6/15/2021 11:30:00 AM

Client Sample ID: TP25-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/21/2021 10:25:21 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/19/2021 9:08:00 PM	60743
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/19/2021 9:08:00 PM	60743
Surr: DNOP	77.6	70-130		%Rec	1	6/19/2021 9:08:00 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Surr: BFB	96.5	70-130		%Rec	1	6/22/2021 12:46:47 AM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Xylenes, Total	ND	0.099		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/22/2021 12:46:47 AM	60726

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-016

Collection Date: 6/15/2021 12:00:00 PM

Client Sample ID: TP26-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1500	60		mg/Kg	20	6/21/2021 10:37:45 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/19/2021 9:32:35 PM	60743
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/19/2021 9:32:35 PM	60743
Surr: DNOP	86.8	70-130		%Rec	1	6/19/2021 9:32:35 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Surr: BFB	95.3	70-130		%Rec	1	6/22/2021 1:10:21 AM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Xylenes, Total	ND	0.099		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	6/22/2021 1:10:21 AM	60726

Lab ID: 2106910-017

Collection Date: 6/15/2021 12:05:00 PM

Client Sample ID: TP26-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	710	60		mg/Kg	20	6/21/2021 10:50:10 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/19/2021 9:57:16 PM	60743
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/19/2021 9:57:16 PM	60743
Surr: DNOP	91.8	70-130		%Rec	1	6/19/2021 9:57:16 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Surr: BFB	92.6	70-130		%Rec	1	6/22/2021 1:33:50 AM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Xylenes, Total	ND	0.098		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	6/22/2021 1:33:50 AM	60726

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	Value above quantitation range
		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		

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-018

Collection Date: 6/15/2021 12:10:00 PM

Client Sample ID: TP27-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	76	60		mg/Kg	20	6/21/2021 11:02:35 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	9.9	9.8		mg/Kg	1	6/21/2021 8:36:23 PM	60743
Motor Oil Range Organics (MRO)	65	49		mg/Kg	1	6/21/2021 8:36:23 PM	60743
Surr: DNOP	73.9	70-130		%Rec	1	6/21/2021 8:36:23 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Surr: BFB	93.9	70-130		%Rec	1	6/22/2021 1:57:20 AM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Xylenes, Total	ND	0.099		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	6/22/2021 1:57:20 AM	60726

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	Value above quantitation range
	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		

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Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-019

Collection Date: 6/15/2021 12:15:00 PM

Client Sample ID: TP27-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	120	60		mg/Kg	20	6/21/2021 11:14:59 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	49	9.4		mg/Kg	1	6/21/2021 9:01:01 PM	60743
Motor Oil Range Organics (MRO)	100	47		mg/Kg	1	6/21/2021 9:01:01 PM	60743
Surr: DNOP	90.2	70-130		%Rec	1	6/21/2021 9:01:01 PM	60743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Surr: BFB	92.0	70-130		%Rec	1	6/22/2021 2:20:54 AM	60726
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Toluene	ND	0.048		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Ethylbenzene	ND	0.048		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Xylenes, Total	ND	0.097		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	6/22/2021 2:20:54 AM	60726

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	Value above quantitation range
	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		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106910

29-Jun-21

Client: GHD**Project:** Hornbaker BA Battery

Sample ID: MB-60753		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 60753			RunNo: 79212					
Prep Date: 6/19/2021		Analysis Date: 6/20/2021			SeqNo: 2780840		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60753		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 60753			RunNo: 79212					
Prep Date: 6/19/2021		Analysis Date: 6/20/2021			SeqNo: 2780841		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: LCS-60771		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 60771			RunNo: 79215					
Prep Date: 6/21/2021		Analysis Date: 6/21/2021			SeqNo: 2782462		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: 2106910-005AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP21-2	Batch ID: 60743	RunNo: 79223								
Prep Date: 6/18/2021	Analysis Date: 6/19/2021	SeqNo: 2781721 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.6	48.12	0	103	15	184			
Surr: DNOP	4.8		4.812		100	70	130			

Sample ID: 2106910-005AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP21-2	Batch ID: 60743	RunNo: 79223								
Prep Date: 6/18/2021	Analysis Date: 6/19/2021	SeqNo: 2781722 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	8.4	41.91	0	106	15	184	10.1	23.9	
Surr: DNOP	4.3		4.191		102	70	130	0	0	

Sample ID: LCS-60694	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60694	RunNo: 79223								
Prep Date: 6/17/2021	Analysis Date: 6/18/2021	SeqNo: 2781759 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID: LCS-60743	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60743	RunNo: 79223								
Prep Date: 6/18/2021	Analysis Date: 6/19/2021	SeqNo: 2781761 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	98.3	68.9	141			
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: LCS-60744	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60744	RunNo: 79223								
Prep Date: 6/18/2021	Analysis Date: 6/20/2021	SeqNo: 2781762 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.5	70	130			

Sample ID: MB-60694	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60694	RunNo: 79223								
Prep Date: 6/17/2021	Analysis Date: 6/18/2021	SeqNo: 2781763 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.0	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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: MB-60743	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60743	RunNo: 79223								
Prep Date: 6/18/2021	Analysis Date: 6/19/2021	SeqNo: 2781765 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	9.5		10.00		95.4	70	130			

Sample ID: MB-60744	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60744	RunNo: 79223								
Prep Date: 6/18/2021	Analysis Date: 6/20/2021	SeqNo: 2781766 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		99.3	70	130			

Sample ID: MB-60742	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60742	RunNo: 79227								
Prep Date: 6/18/2021	Analysis Date: 6/20/2021	SeqNo: 2783470 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		98.7	70	130			

Sample ID: LCS-60742	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60742	RunNo: 79227								
Prep Date: 6/18/2021	Analysis Date: 6/20/2021	SeqNo: 2783473 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	141			
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: MB-60789	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60789	RunNo: 79260								
Prep Date: 6/21/2021	Analysis Date: 6/22/2021	SeqNo: 2783603 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	70	130			

Sample ID: MB-60790	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60790	RunNo: 79260								
Prep Date: 6/21/2021	Analysis Date: 6/22/2021	SeqNo: 2783604 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: MB-60790	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 60790				RunNo: 79260					
Prep Date: 6/21/2021	Analysis Date: 6/22/2021				SeqNo: 2783604	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		109	70	130			

Sample ID: LCS-60789	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 60789				RunNo: 79260					
Prep Date: 6/21/2021	Analysis Date: 6/22/2021				SeqNo: 2783605	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		111	70	130			

Sample ID: LCS-60790	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 60790				RunNo: 79260					
Prep Date: 6/21/2021	Analysis Date: 6/22/2021				SeqNo: 2783606	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		105	70	130			

Sample ID: LCS-60869	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 60869				RunNo: 79364					
Prep Date: 6/23/2021	Analysis Date: 6/26/2021				SeqNo: 2789111	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		119	70	130			

Sample ID: MB-60869	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 60869				RunNo: 79364					
Prep Date: 6/23/2021	Analysis Date: 6/26/2021				SeqNo: 2789122	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	70	130			

Sample ID: MB-60873	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 60873				RunNo: 79364					
Prep Date: 6/23/2021	Analysis Date: 6/26/2021				SeqNo: 2789298	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.0	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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106910
29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: LCS-60873	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60873	RunNo: 79364								
Prep Date: 6/23/2021	Analysis Date: 6/26/2021	SeqNo: 2789299		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.0	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
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: LCS-60719	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60719			RunNo: 79207						
Prep Date: 6/17/2021	Analysis Date: 6/19/2021			SeqNo: 2780934		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Sample ID: MB-60719	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60719			RunNo: 79207						
Prep Date: 6/17/2021	Analysis Date: 6/19/2021			SeqNo: 2780936		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		99.1	70	130			

Sample ID: mb-60726	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60726			RunNo: 79236						
Prep Date: 6/17/2021	Analysis Date: 6/21/2021			SeqNo: 2782336		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		99.0	70	130			

Sample ID: lcs-60726	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60726			RunNo: 79236						
Prep Date: 6/17/2021	Analysis Date: 6/21/2021			SeqNo: 2782337		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: 2106910-010ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP23-9	Batch ID: 60726			RunNo: 79236						
Prep Date: 6/17/2021	Analysis Date: 6/21/2021			SeqNo: 2782339		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.32	0	92.2	61.3	114			
Surr: BFB	1100		972.8		110	70	130			

Sample ID: 2106910-010amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP23-9	Batch ID: 60726			RunNo: 79236						
Prep Date: 6/17/2021	Analysis Date: 6/21/2021			SeqNo: 2782340		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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2106910
29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: 2106910-010amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP23-9		Batch ID: 60726		RunNo: 79236						
Prep Date: 6/17/2021		Analysis Date: 6/21/2021		SeqNo: 2782340		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.63	0	88.1	61.3	114	3.21	20	
Surr: BFB	1100		985.2		109	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
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: LCS-60719	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 60719			RunNo: 79207						
Prep Date: 6/17/2021	Analysis Date: 6/19/2021			SeqNo: 2780964		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	89.3	80	120			
Toluene	0.88	0.050	1.000	0	87.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.0	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.5	70	130			

Sample ID: MB-60719	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 60719			RunNo: 79207						
Prep Date: 6/17/2021	Analysis Date: 6/19/2021			SeqNo: 2780965		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	0.84		1.000		84.2	70	130			

Sample ID: mb-60726	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 60726			RunNo: 79236						
Prep Date: 6/17/2021	Analysis Date: 6/21/2021			SeqNo: 2782380		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	0.97		1.000		97.1	70	130			

Sample ID: LCS-60726	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 60726			RunNo: 79236						
Prep Date: 6/17/2021	Analysis Date: 6/21/2021			SeqNo: 2782381		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	96.7	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106910

29-Jun-21

Client: GHD**Project:** Hornbaker BA Battery

Sample ID: 2106910-011ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP23-10	Batch ID: 60726	RunNo: 79236								
Prep Date: 6/17/2021	Analysis Date: 6/21/2021	SeqNo: 2782384	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9823	0	90.2	80	120			
Toluene	0.91	0.049	0.9823	0	93.1	80	120			
Ethylbenzene	0.92	0.049	0.9823	0	93.3	80	120			
Xylenes, Total	2.7	0.098	2.947	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.95		0.9823		96.8	70	130			

Sample ID: 2106910-011amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP23-10	Batch ID: 60726	RunNo: 79236								
Prep Date: 6/17/2021	Analysis Date: 6/21/2021	SeqNo: 2782385	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9833	0	92.8	80	120	2.89	20	
Toluene	0.94	0.049	0.9833	0	95.3	80	120	2.39	20	
Ethylbenzene	0.95	0.049	0.9833	0	96.4	80	120	3.39	20	
Xylenes, Total	2.8	0.098	2.950	0	96.5	80	120	3.72	20	
Surr: 4-Bromofluorobenzene	0.98		0.9833		99.3	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

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



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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2106910

RcptNo: 1

Received By: Juan Rojas

6/17/2021 7:35:00 AM

Juan Rojas

Completed By: Cheyenne Cason

6/17/2021 9:15:39 AM

Cason

Reviewed By:

*JR 6/17/21*Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH.

(<2 or >12 unless noted)

Adjusted?

Checked by:

*JO**6-17-21*Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good				
2	0.3	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Humbaker 13A Battery

Project #:

11228880

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 2.4-0 = 2.4

Container Type and #

Preservative Type

HEAL No.

2106910

Jew

013

014

015

016

017

018

019

Date Time Matrix Sample Name

06/21 1120

S

TP24-2

1125

|

TP25-S

1130

|

TP25-2

1200

|

TP26-2

1205

|

TP26-6

1210

|

TP27-S

1215

|

TP27-2

Date: Time: Relinquished by:

06/21 0800

Zach Comino/gld

Date: Time: Relinquished by:

06/21 1900

gld

Received by: Via: Date Time

gld 6/16/21 900

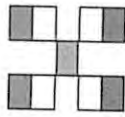
Received by: Via: Date Time

gld 6/17/21 7:135

Remarks: Please email: Chase_Settle@eogresources.com;
Tom.Larson@ghd.com; Zach.Comino@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

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTX / MTBE / TMBs (8024)	X
TPH: 8015D (GRO / DRO / MRO)	X
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	X

Chase Settle



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

July 27, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2107641

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/14/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2107641

Date Reported: 7/27/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP3-10

Project: Hornbaker BA Battery

Collection Date: 7/12/2021 3:05:00 PM

Lab ID: 2107641-001

Matrix: SOIL

Received Date: 7/14/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	610	60		mg/Kg	20	7/20/2021 10:58:18 AM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/16/2021 5:37:42 PM	61345
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/16/2021 5:37:42 PM	61345
Surr: DNOP	118	70-130		%Rec	1	7/16/2021 5:37:42 PM	61345
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 1:47:00 AM	61315
Surr: BFB	109	70-130		%Rec	1	7/17/2021 1:47:00 AM	61315
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	7/17/2021 3:08:00 PM	61315
Toluene	ND	0.047		mg/Kg	1	7/17/2021 3:08:00 PM	61315
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 3:08:00 PM	61315
Xylenes, Total	ND	0.094		mg/Kg	1	7/17/2021 3:08:00 PM	61315
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/17/2021 3:08:00 PM	61315

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	Value above quantitation range
	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		

Analytical Report

Lab Order 2107641

Date Reported: 7/27/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP3-14

Project: Hornbaker BA Battery

Collection Date: 7/12/2021 3:15:00 PM

Lab ID: 2107641-002

Matrix: SOIL

Received Date: 7/14/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	590	60		mg/Kg	20	7/20/2021 11:10:43 AM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/16/2021 6:01:35 PM	61345
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2021 6:01:35 PM	61345
Surr: DNOP	119	70-130		%Rec	1	7/16/2021 6:01:35 PM	61345
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 2:47:00 AM	61315
Surr: BFB	117	70-130		%Rec	1	7/17/2021 2:47:00 AM	61315
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	7/17/2021 4:09:00 PM	61315
Toluene	ND	0.048		mg/Kg	1	7/17/2021 4:09:00 PM	61315
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 4:09:00 PM	61315
Xylenes, Total	ND	0.095		mg/Kg	1	7/17/2021 4:09:00 PM	61315
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	7/17/2021 4:09:00 PM	61315

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	Value above quantitation range
	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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107641
27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61410	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 61410	RunNo: 79938
Prep Date: 7/19/2021	Analysis Date: 7/20/2021	SeqNo: 2813087 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-61410	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 61410	RunNo: 79938
Prep Date: 7/19/2021	Analysis Date: 7/20/2021	SeqNo: 2813088 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.7 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
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107641

27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61345	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61345	RunNo: 79901								
Prep Date: 7/15/2021	Analysis Date: 7/16/2021	SeqNo: 2810838 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	70	130			

Sample ID: LCS-61345	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61345	RunNo: 79901								
Prep Date: 7/15/2021	Analysis Date: 7/16/2021	SeqNo: 2810839 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.1	68.9	141			
Surr: DNOP	4.7		5.000		93.3	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107641

27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-61315	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809671		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	78.6	131			
Surr: BFB	1200		1000		124	70	130			

Sample ID: mb-61315	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809672		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			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107641

27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-61315	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809764		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	85.4	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.7	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: mb-61315	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809765		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

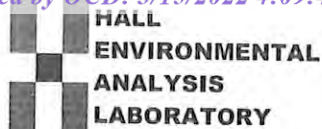
Sample ID: 2107641-001ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: TP3-10	Batch ID: 61315			RunNo: 79870						
Prep Date: 7/14/2021	Analysis Date: 7/17/2021			SeqNo: 2810386		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9560	0	83.3	80	120			
Toluene	0.82	0.048	0.9560	0	85.4	80	120			
Ethylbenzene	0.85	0.048	0.9560	0	89.0	80	120			
Xylenes, Total	2.6	0.096	2.868	0	89.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		0.9560		112	70	130			

Sample ID: 2107641-001amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: TP3-10	Batch ID: 61315			RunNo: 79870						
Prep Date: 7/14/2021	Analysis Date: 7/17/2021			SeqNo: 2810387		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.023	0.9183	0	85.7	80	120	1.19	20	
Toluene	0.80	0.046	0.9183	0	87.2	80	120	1.98	20	
Ethylbenzene	0.84	0.046	0.9183	0	91.4	80	120	1.38	20	
Xylenes, Total	2.6	0.092	2.755	0	92.7	80	120	0.660	20	
Surr: 4-Bromofluorobenzene	1.1		0.9183		120	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

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



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: 2107641

RcptNo: 1

Received By: Cheyenne Cason 7/14/2021 7:30:00 AM

Completed By: Sean Livingston 7/14/2021 8:45:36 AM

Reviewed By: JR 7/14/21

Chad
Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: TMC 7.14.21

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				
2	2.1	Good				



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

July 26, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2107642

Dear Tom Larson:

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

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

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

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

Sincerely,

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: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642**Lab ID:** 2107642-001**Collection Date:** 7/13/2021 8:00:00 AM**Client Sample ID:** TP2-12**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4700	150		mg/Kg	50	7/21/2021 3:03:25 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/16/2021 6:25:27 PM	61345
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/16/2021 6:25:27 PM	61345
Surr: DNOP	115	70-130		%Rec	1	7/16/2021 6:25:27 PM	61345
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/17/2021 3:07:00 AM	61315
Surr: BFB	109	70-130		%Rec	1	7/17/2021 3:07:00 AM	61315
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	7/17/2021 4:29:00 PM	61315
Toluene	ND	0.050		mg/Kg	1	7/17/2021 4:29:00 PM	61315
Ethylbenzene	ND	0.050		mg/Kg	1	7/17/2021 4:29:00 PM	61315
Xylenes, Total	ND	0.10		mg/Kg	1	7/17/2021 4:29:00 PM	61315
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/17/2021 4:29:00 PM	61315

Lab ID: 2107642-002**Collection Date:** 7/13/2021 8:10:00 AM**Client Sample ID:** TP2-16**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6000	300		mg/Kg	100	7/21/2021 3:15:49 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/16/2021 6:49:21 PM	61345
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/16/2021 6:49:21 PM	61345
Surr: DNOP	113	70-130		%Rec	1	7/16/2021 6:49:21 PM	61345
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 3:27:00 AM	61315
Surr: BFB	117	70-130		%Rec	1	7/17/2021 3:27:00 AM	61315
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	7/17/2021 4:49:00 PM	61315
Toluene	ND	0.048		mg/Kg	1	7/17/2021 4:49:00 PM	61315
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 4:49:00 PM	61315
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 4:49:00 PM	61315
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/17/2021 4:49:00 PM	61315

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-003

Collection Date: 7/13/2021 8:20:00 AM

Client Sample ID: TP2-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8600	300		mg/Kg	100	7/23/2021 7:40:58 AM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/16/2021 7:13:12 PM	61345
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2021 7:13:12 PM	61345
Surr: DNOP	115	70-130		%Rec	1	7/16/2021 7:13:12 PM	61345
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 3:47:00 AM	61315
Surr: BFB	125	70-130		%Rec	1	7/17/2021 3:47:00 AM	61315
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	7/17/2021 5:09:00 PM	61315
Toluene	ND	0.049		mg/Kg	1	7/17/2021 5:09:00 PM	61315
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 5:09:00 PM	61315
Xylenes, Total	ND	0.098		mg/Kg	1	7/17/2021 5:09:00 PM	61315
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	7/17/2021 5:09:00 PM	61315

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-004

Collection Date: 7/13/2021 9:10:00 AM

Client Sample ID: TP1-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	650	59		mg/Kg	20	7/20/2021 12:50:00 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	760	94		mg/Kg	10	7/16/2021 7:37:02 PM	61345
Motor Oil Range Organics (MRO)	590	470		mg/Kg	10	7/16/2021 7:37:02 PM	61345
Surr: DNOP	0	70-130	S	%Rec	10	7/16/2021 7:37:02 PM	61345
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	58	5.0		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Surr: BFB	339	70-130	S	%Rec	1	7/17/2021 5:29:00 PM	61315
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	0.033	0.025		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Toluene	ND	0.050		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Ethylbenzene	1.2	0.050		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Xylenes, Total	1.6	0.10		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Surr: 4-Bromofluorobenzene	214	70-130	S	%Rec	1	7/17/2021 5:29:00 PM	61315

Lab ID: 2107642-005

Collection Date: 7/13/2021 9:45:00 AM

Client Sample ID: TP9-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	590	60		mg/Kg	20	7/20/2021 1:02:25 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	26	9.5		mg/Kg	1	7/21/2021 11:42:35 AM	61345
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/21/2021 11:42:35 AM	61345
Surr: DNOP	87.2	70-130		%Rec	1	7/21/2021 11:42:35 AM	61345
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 4:47:00 AM	61315
Surr: BFB	116	70-130		%Rec	1	7/17/2021 4:47:00 AM	61315
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	7/17/2021 6:09:00 PM	61315
Toluene	ND	0.047		mg/Kg	1	7/17/2021 6:09:00 PM	61315
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 6:09:00 PM	61315
Xylenes, Total	ND	0.094		mg/Kg	1	7/17/2021 6:09:00 PM	61315
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	7/17/2021 6:09:00 PM	61315

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-006

Collection Date: 7/13/2021 10:00:00 AM

Client Sample ID: TP9-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	140	59		mg/Kg	20	7/20/2021 1:14:50 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	17	9.6		mg/Kg	1	7/21/2021 11:54:24 AM	61345
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/21/2021 11:54:24 AM	61345
Surr: DNOP	88.1	70-130		%Rec	1	7/21/2021 11:54:24 AM	61345
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 5:06:00 AM	61315
Surr: BFB	109	70-130		%Rec	1	7/17/2021 5:06:00 AM	61315
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	7/17/2021 6:29:00 PM	61315
Toluene	ND	0.048		mg/Kg	1	7/17/2021 6:29:00 PM	61315
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 6:29:00 PM	61315
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 6:29:00 PM	61315
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	7/17/2021 6:29:00 PM	61315

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-007

Collection Date: 7/13/2021 10:30:00 AM

Client Sample ID: TP6-12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8500	300		mg/Kg	100	7/21/2021 11:00:21 AM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/17/2021 10:21:30 AM	61348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 10:21:30 AM	61348
Surr: DNOP	115	70-130		%Rec	1	7/17/2021 10:21:30 AM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Surr: BFB	101	70-130		%Rec	1	7/16/2021 4:15:39 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/16/2021 4:15:39 PM	61317

Lab ID: 2107642-008

Collection Date: 7/13/2021 10:40:00 AM

Client Sample ID: TP6-16

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	9900	300		mg/Kg	100	7/21/2021 11:12:46 AM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 10:59:16 AM	61348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 10:59:16 AM	61348
Surr: DNOP	117	70-130		%Rec	1	7/17/2021 10:59:16 AM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Surr: BFB	100	70-130		%Rec	1	7/16/2021 5:27:13 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Xylenes, Total	ND	0.10		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/16/2021 5:27:13 PM	61317

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 Value above quantitation range
	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	

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-009

Collection Date: 7/13/2021 10:50:00 AM

Client Sample ID: TP6-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	9900	610		mg/Kg	200	7/21/2021 4:05:27 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2021 11:11:45 AM	61348
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/17/2021 11:11:45 AM	61348
Surr: DNOP	114	70-130		%Rec	1	7/17/2021 11:11:45 AM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Surr: BFB	97.8	70-130		%Rec	1	7/16/2021 6:38:37 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/16/2021 6:38:37 PM	61317

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-010

Collection Date: 7/13/2021 11:25:00 AM

Client Sample ID: TP5-12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5400	300		mg/Kg	100	7/21/2021 11:37:35 AM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 11:24:30 AM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 11:24:30 AM	61348
Surr: DNOP	115	70-130		%Rec	1	7/17/2021 11:24:30 AM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Surr: BFB	98.4	70-130		%Rec	1	7/16/2021 7:02:22 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Xylenes, Total	ND	0.10		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/16/2021 7:02:22 PM	61317

Lab ID: 2107642-011

Collection Date: 7/13/2021 11:30:00 AM

Client Sample ID: TP5-16

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	7300	300		mg/Kg	100	7/21/2021 11:50:00 AM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 11:36:56 AM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 11:36:56 AM	61348
Surr: DNOP	115	70-130		%Rec	1	7/17/2021 11:36:56 AM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Surr: BFB	99.7	70-130		%Rec	1	7/16/2021 7:26:07 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Xylenes, Total	ND	0.10		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/16/2021 7:26:07 PM	61317

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-012

Collection Date: 7/13/2021 11:40:00 AM

Client Sample ID: TP5-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	9200	300		mg/Kg	100	7/21/2021 12:02:25 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 11:49:38 AM	61348
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 11:49:38 AM	61348
Surr: DNOP	120	70-130		%Rec	1	7/17/2021 11:49:38 AM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Surr: BFB	98.9	70-130		%Rec	1	7/16/2021 7:49:52 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/16/2021 7:49:52 PM	61317

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642**Lab ID:** 2107642-013**Collection Date:** 7/13/2021 1:15:00 PM**Client Sample ID:** TP11-8**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8600	300		mg/Kg	100	7/21/2021 12:14:50 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 12:02:08 PM	61348
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 12:02:08 PM	61348
Surr: DNOP	118	70-130		%Rec	1	7/17/2021 12:02:08 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Surr: BFB	97.7	70-130		%Rec	1	7/16/2021 8:13:31 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/16/2021 8:13:31 PM	61317

Lab ID: 2107642-014**Collection Date:** 7/13/2021 1:25:00 PM**Client Sample ID:** TP11-12**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	9500	300		mg/Kg	100	7/21/2021 12:27:14 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 12:14:47 PM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 12:14:47 PM	61348
Surr: DNOP	122	70-130		%Rec	1	7/17/2021 12:14:47 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Surr: BFB	98.7	70-130		%Rec	1	7/16/2021 8:37:08 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Toluene	ND	0.048		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Ethylbenzene	ND	0.048		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Xylenes, Total	ND	0.096		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/16/2021 8:37:08 PM	61317

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 Value above quantitation range
	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	

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-015

Collection Date: 7/13/2021 1:35:00 PM

Client Sample ID: TP11-15

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8800	300		mg/Kg	100	7/21/2021 12:39:39 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 12:27:20 PM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 12:27:20 PM	61348
Surr: DNOP	130	70-130		%Rec	1	7/17/2021 12:27:20 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Surr: BFB	97.4	70-130		%Rec	1	7/16/2021 9:00:46 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Xylenes, Total	ND	0.10		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/16/2021 9:00:46 PM	61317

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642**Lab ID:** 2107642-016**Collection Date:** 7/13/2021 1:45:00 PM**Client Sample ID:** TP11-18**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	10000	600		mg/Kg	200	7/21/2021 1:16:54 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 12:39:55 PM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 12:39:55 PM	61348
Surr: DNOP	118	70-130		%Rec	1	7/17/2021 12:39:55 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Surr: BFB	96.1	70-130		%Rec	1	7/16/2021 9:24:23 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Xylenes, Total	ND	0.097		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/16/2021 9:24:23 PM	61317

Lab ID: 2107642-017**Collection Date:** 7/13/2021 1:50:00 PM**Client Sample ID:** TP11-20**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	16000	610		mg/Kg	200	7/21/2021 1:29:18 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 12:52:33 PM	61348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 12:52:33 PM	61348
Surr: DNOP	111	70-130		%Rec	1	7/17/2021 12:52:33 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Surr: BFB	95.2	70-130		%Rec	1	7/16/2021 10:35:04 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/16/2021 10:35:04 PM	61317

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-018

Collection Date: 7/13/2021 2:10:00 PM

Client Sample ID: TP13-7

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	11000	600		mg/Kg	200	7/21/2021 1:41:42 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/17/2021 1:05:10 PM	61348
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2021 1:05:10 PM	61348
Surr: DNOP	120	70-130		%Rec	1	7/17/2021 1:05:10 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Surr: BFB	94.7	70-130		%Rec	1	7/16/2021 10:58:35 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/16/2021 10:58:35 PM	61317

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-019

Collection Date: 7/13/2021 2:30:00 PM

Client Sample ID: TP13-14

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8500	300		mg/Kg	100	7/21/2021 1:54:07 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 1:17:47 PM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 1:17:47 PM	61348
Surr: DNOP	110	70-130		%Rec	1	7/17/2021 1:17:47 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Surr: BFB	95.8	70-130		%Rec	1	7/16/2021 11:22:09 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/16/2021 11:22:09 PM	61317

Lab ID: 2107642-020

Collection Date: 7/13/2021 2:45:00 PM

Client Sample ID: TP13-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	13000	600		mg/Kg	200	7/21/2021 2:06:32 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2021 1:30:26 PM	61348
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2021 1:30:26 PM	61348
Surr: DNOP	108	70-130		%Rec	1	7/17/2021 1:30:26 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Surr: BFB	95.5	70-130		%Rec	1	7/16/2021 11:45:35 PM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/16/2021 11:45:35 PM	61317

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-021

Collection Date: 7/13/2021 3:20:00 PM

Client Sample ID: TP15-14

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4200	150		mg/Kg	50	7/21/2021 2:18:56 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 1:43:04 PM	61348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 1:43:04 PM	61348
Surr: DNOP	108	70-130		%Rec	1	7/17/2021 1:43:04 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Surr: BFB	95.5	70-130		%Rec	1	7/17/2021 12:09:05 AM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Toluene	ND	0.049		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/17/2021 12:09:05 AM	61317

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642**Lab ID:** 2107642-022**Collection Date:** 7/13/2021 3:30:00 PM**Client Sample ID:** TP15-16**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6000	300		mg/Kg	100	7/21/2021 2:31:21 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	390	9.9		mg/Kg	1	7/17/2021 1:55:42 PM	61348
Motor Oil Range Organics (MRO)	170	49		mg/Kg	1	7/17/2021 1:55:42 PM	61348
Surr: DNOP	106	70-130		%Rec	1	7/17/2021 1:55:42 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	9.7	4.9		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Surr: BFB	165	70-130	S	%Rec	1	7/17/2021 12:32:36 AM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Toluene	ND	0.049		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Ethylbenzene	0.071	0.049		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Xylenes, Total	0.30	0.099		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/17/2021 12:32:36 AM	61317

Lab ID: 2107642-023**Collection Date:** 7/13/2021 3:40:00 PM**Client Sample ID:** TP15-20**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6100	300		mg/Kg	100	7/21/2021 2:43:45 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 2:21:16 PM	61348
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 2:21:16 PM	61348
Surr: DNOP	110	70-130		%Rec	1	7/17/2021 2:21:16 PM	61348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Surr: BFB	95.7	70-130		%Rec	1	7/17/2021 12:56:04 AM	61317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Toluene	ND	0.049		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/17/2021 12:56:04 AM	61317

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

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	Value above quantitation range
	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		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61418	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61418	RunNo: 79937								
Prep Date: 7/20/2021	Analysis Date: 7/20/2021	SeqNo: 2812767 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61418	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61418	RunNo: 79937								
Prep Date: 7/20/2021	Analysis Date: 7/20/2021	SeqNo: 2812768 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Sample ID: MB-61410	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61410	RunNo: 79938								
Prep Date: 7/19/2021	Analysis Date: 7/20/2021	SeqNo: 2813087 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61410	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61410	RunNo: 79938								
Prep Date: 7/19/2021	Analysis Date: 7/20/2021	SeqNo: 2813088 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61345	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61345	RunNo: 79901								
Prep Date: 7/15/2021	Analysis Date: 7/16/2021	SeqNo: 2810838 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	70	130			

Sample ID: LCS-61345	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61345	RunNo: 79901								
Prep Date: 7/15/2021	Analysis Date: 7/16/2021	SeqNo: 2810839 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.1	68.9	141			
Surr: DNOP	4.7		5.000		93.3	70	130			

Sample ID: MB-61348	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61348	RunNo: 79910								
Prep Date: 7/15/2021	Analysis Date: 7/17/2021	SeqNo: 2812162 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		129	70	130			

Sample ID: LCS-61348	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61348	RunNo: 79910								
Prep Date: 7/15/2021	Analysis Date: 7/17/2021	SeqNo: 2812163 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	68.9	141			
Surr: DNOP	6.2		5.000		123	70	130			

Sample ID: 2107642-007AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP6-12	Batch ID: 61348	RunNo: 79910								
Prep Date: 7/15/2021	Analysis Date: 7/17/2021	SeqNo: 2812164 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.7	48.54	0	91.2	15	184			
Surr: DNOP	5.1		4.854		106	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2107642-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP6-12	Batch ID: 61348	RunNo: 79910								
Prep Date: 7/15/2021	Analysis Date: 7/17/2021	SeqNo: 2812165	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.6	48.17	0	91.1	15	184	0.903	23.9	
Surr: DNOP	5.1		4.817		105	70	130	0	0	

Sample ID: MB-61434	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61434	RunNo: 79955								
Prep Date: 7/20/2021	Analysis Date: 7/21/2021	SeqNo: 2813627	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Sample ID: LCS-61434	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61434	RunNo: 79955								
Prep Date: 7/20/2021	Analysis Date: 7/21/2021	SeqNo: 2813628	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.3	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-61315	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61315				RunNo: 79869					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809671	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	78.6	131			
Surr: BFB	1200		1000		124	70	130			

Sample ID: mb-61315	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61315				RunNo: 79869					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809672	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: mb-61317	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61317				RunNo: 79857					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809863	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	970		1000		97.4	70	130			

Sample ID: lcs-61317	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61317				RunNo: 79857					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809864	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	102	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Sample ID: 2107642-007ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP6-12	Batch ID: 61317				RunNo: 79857					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809866	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.80	0	94.5	61.3	114			
Surr: BFB	1100		992.1		113	70	130			

Sample ID: 2107642-007amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP6-12	Batch ID: 61317				RunNo: 79857					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809867	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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2107642
26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2107642-007amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP6-12		Batch ID: 61317		RunNo: 79857						
Prep Date: 7/14/2021		Analysis Date: 7/16/2021		SeqNo: 2809867		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.56	0	92.1	61.3	114	3.52	20	
Surr: BFB	1100		982.3		110	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
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-61315	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809764		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	85.4	80	120			B
Toluene	0.88	0.050	1.000	0	88.1	80	120			B
Ethylbenzene	0.91	0.050	1.000	0	90.7	80	120			B
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			B
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: mb-61315	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809765		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

Sample ID: mb-61317	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61317			RunNo: 79857						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809931		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-61317	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61317			RunNo: 79857						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809932		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	92.9	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107642

26-Jul-21

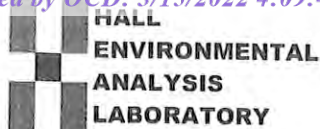
Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2107642-008ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP6-16	Batch ID: 61317	RunNo: 79857								
Prep Date: 7/14/2021	Analysis Date: 7/16/2021	SeqNo: 2809935	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9911	0	94.0	80	120			
Toluene	0.97	0.050	0.9911	0	97.4	80	120			
Ethylbenzene	0.98	0.050	0.9911	0	98.4	80	120			
Xylenes, Total	2.9	0.099	2.973	0	98.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9911		106	70	130			

Sample ID: 2107642-008amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP6-16	Batch ID: 61317	RunNo: 79857								
Prep Date: 7/14/2021	Analysis Date: 7/16/2021	SeqNo: 2809936	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9737	0	92.2	80	120	3.70	20	
Toluene	0.94	0.049	0.9737	0	96.5	80	120	2.70	20	
Ethylbenzene	0.95	0.049	0.9737	0	97.9	80	120	2.29	20	
Xylenes, Total	2.9	0.097	2.921	0	98.8	80	120	1.83	20	
Surr: 4-Bromofluorobenzene	1.0		0.9737		104	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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		



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: 2107642

RcptNo: 1

Received By: Cheyenne Cason 7/14/2021 7:30:00 AM

Completed By: Sean Livingston 7/14/2021 9:01:23 AM

Reviewed By:

JR 7/14/21

Chad

Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: TMC. 7.14.21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				
2	2.1	Good				

Chain-of-Custody Record

Client: GHD

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Hornbaker Bt Battery

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler:

~~Becky Haskell~~ Heath BoydOn Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 2.3-0.2-2.1

Container Type and #

402.3w 1

Preservative Type

N/A

HEAL No.

2107642

Date

7/13/21

Time

800

Matrix

S

Sample Name

TP2-12

Date

7/13/21

Time

810

Matrix

S

Sample Name

TP2-16

Date

7/13/21

Time

820

Matrix

S

Sample Name

TP2-20

Date

7/13/21

Time

910

Matrix

S

Sample Name

TP1-20

Date

7/13/21

Time

945

Matrix

S

Sample Name

TP9-8

Date

7/13/21

Time

1000

Matrix

S

Sample Name

TP9-10

Date

7/13/21

Time

1030

Matrix

S

Sample Name

TP6-17

Date

7/13/21

Time

1040

Matrix

S

Sample Name

TP6-16

Date

7/13/21

Time

1050

Matrix

S

Sample Name

TP6-20

Date

7/13/21

Time

1125

Matrix

S

Sample Name

TP5-12

Date

7/13/21

Time

1130

Matrix

S

Sample Name

TP5-16

Date

7/13/21

Time

1140

Matrix

S

Sample Name

TP5-20

Date

7/13/21

Time

1730

Matrix

S

Sample Name

TP5-20

Date

7/13/21

Time

1900

Matrix

S

Sample Name

TP5-20

Date

7/13/21

Time

1900

Matrix

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Sample Name

TP5-20

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Matrix

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Sample Name

TP5-20

Date

7/13/21

Time

1900

Matrix

S

Sample Name

TP5-20

Date

7/13/21

Time

1900



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

July 28, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2107732

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 20 sample(s) on 7/15/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP17-8

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 7:50:00 AM

Lab ID: 2107732-001

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2500	150		mg/Kg	50	7/22/2021 7:38:06 AM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/17/2021 1:01:49 PM	61367
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 1:01:49 PM	61367
Surr: DNOP	82.7	70-130		%Rec	1	7/17/2021 1:01:49 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Surr: BFB	94.3	70-130		%Rec	1	7/17/2021 9:10:01 AM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Toluene	ND	0.049		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/17/2021 9:10:01 AM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP17-14

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 8:00:00 AM

Lab ID: 2107732-002

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5100	150		mg/Kg	50	7/22/2021 7:50:30 AM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/17/2021 1:25:49 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 1:25:49 PM	61367
Surr: DNOP	85.3	70-130		%Rec	1	7/17/2021 1:25:49 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Surr: BFB	94.8	70-130		%Rec	1	7/17/2021 9:33:35 AM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Toluene	ND	0.046		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Ethylbenzene	ND	0.046		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Xylenes, Total	ND	0.093		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/17/2021 9:33:35 AM	61346

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	Value above quantitation range
	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		

Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP17-20

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 8:15:00 AM

Lab ID: 2107732-003

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	9200	600		mg/Kg	200	7/22/2021 8:02:55 AM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/17/2021 1:49:48 PM	61367
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 1:49:48 PM	61367
Surr: DNOP	80.6	70-130		%Rec	1	7/17/2021 1:49:48 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Surr: BFB	95.6	70-130		%Rec	1	7/17/2021 10:44:12 AM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Toluene	ND	0.047		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Xylenes, Total	ND	0.095		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/17/2021 10:44:12 AM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP19-10

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 9:00:00 AM

Lab ID: 2107732-004

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	210	59		mg/Kg	20	7/20/2021 6:39:34 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 2:13:45 PM	61367
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 2:13:45 PM	61367
Surr: DNOP	79.4	70-130		%Rec	1	7/17/2021 2:13:45 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Surr: BFB	94.8	70-130		%Rec	1	7/17/2021 11:07:48 AM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Toluene	ND	0.046		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Ethylbenzene	ND	0.046		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Xylenes, Total	ND	0.093		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	7/17/2021 11:07:48 AM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP19-14

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 9:10:00 AM

Lab ID: 2107732-005

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	180	61		mg/Kg	20	7/20/2021 6:51:59 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/17/2021 2:37:42 PM	61367
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2021 2:37:42 PM	61367
Surr: DNOP	79.7	70-130		%Rec	1	7/17/2021 2:37:42 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Surr: BFB	93.6	70-130		%Rec	1	7/17/2021 11:31:25 AM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Toluene	ND	0.048		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	7/17/2021 11:31:25 AM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP23-12

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 9:35:00 AM

Lab ID: 2107732-006

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	260	60		mg/Kg	20	7/20/2021 7:04:24 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/17/2021 3:01:44 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 3:01:44 PM	61367
Surr: DNOP	77.8	70-130		%Rec	1	7/17/2021 3:01:44 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Surr: BFB	95.8	70-130		%Rec	1	7/17/2021 11:54:55 AM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Toluene	ND	0.049		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Xylenes, Total	ND	0.098		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/17/2021 11:54:55 AM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP23-14

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 9:45:00 AM

Lab ID: 2107732-007

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/20/2021 7:16:48 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/17/2021 3:25:47 PM	61367
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 3:25:47 PM	61367
Surr: DNOP	76.9	70-130		%Rec	1	7/17/2021 3:25:47 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Surr: BFB	93.2	70-130		%Rec	1	7/17/2021 12:18:29 PM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Toluene	ND	0.050		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Ethylbenzene	ND	0.050		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	7/17/2021 12:18:29 PM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP26-8

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 10:10:00 AM

Lab ID: 2107732-008

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2100	60		mg/Kg	20	7/20/2021 7:29:13 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 3:49:48 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 3:49:48 PM	61367
Surr: DNOP	75.7	70-130		%Rec	1	7/17/2021 3:49:48 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Surr: BFB	94.5	70-130		%Rec	1	7/17/2021 12:42:08 PM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Toluene	ND	0.048		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	7/17/2021 12:42:08 PM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP26-16

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 10:30:00 AM

Lab ID: 2107732-009

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1900	60		mg/Kg	20	7/20/2021 11:24:56 PM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 4:13:47 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 4:13:47 PM	61367
Surr: DNOP	72.5	70-130		%Rec	1	7/17/2021 4:13:47 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Surr: BFB	95.4	70-130		%Rec	1	7/17/2021 1:05:47 PM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Toluene	ND	0.047		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Xylenes, Total	ND	0.095		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	7/17/2021 1:05:47 PM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP26-20

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 10:40:00 AM

Lab ID: 2107732-010

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	60		mg/Kg	20	7/20/2021 11:37:20 PM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 4:37:46 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 4:37:46 PM	61367
Surr: DNOP	72.7	70-130		%Rec	1	7/17/2021 4:37:46 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Surr: BFB	95.3	70-130		%Rec	1	7/17/2021 1:29:29 PM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Toluene	ND	0.048		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	7/17/2021 1:29:29 PM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP27-4

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 11:15:00 AM

Lab ID: 2107732-011

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1100	60		mg/Kg	20	7/20/2021 11:49:45 PM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/17/2021 5:01:49 PM	61367
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 5:01:49 PM	61367
Surr: DNOP	76.6	70-130		%Rec	1	7/17/2021 5:01:49 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Surr: BFB	96.8	70-130		%Rec	1	7/17/2021 1:53:15 PM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Toluene	ND	0.049		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Xylenes, Total	ND	0.098		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/17/2021 1:53:15 PM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP27-11

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 11:30:00 AM

Lab ID: 2107732-012

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	700	60		mg/Kg	20	7/21/2021 12:02:10 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2021 5:25:49 PM	61367
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/17/2021 5:25:49 PM	61367
Surr: DNOP	74.4	70-130		%Rec	1	7/17/2021 5:25:49 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Surr: BFB	95.8	70-130		%Rec	1	7/17/2021 2:16:54 PM	61346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Toluene	ND	0.047		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Xylenes, Total	ND	0.094		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/17/2021 2:16:54 PM	61346

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP27-16

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 11:50:00 AM

Lab ID: 2107732-013

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	200	59		mg/Kg	20	7/21/2021 12:14:35 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/17/2021 5:49:47 PM	61367
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2021 5:49:47 PM	61367
Surr: DNOP	73.8	70-130		%Rec	1	7/17/2021 5:49:47 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Surr: BFB	110	70-130		%Rec	1	7/16/2021 4:27:00 PM	61351
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Toluene	ND	0.046		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Ethylbenzene	ND	0.046		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Xylenes, Total	ND	0.092		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/16/2021 4:27:00 PM	61351

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP22-4

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 1:15:00 PM

Lab ID: 2107732-014

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1000	60		mg/Kg	20	7/21/2021 12:26:59 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1300	98		mg/Kg	10	7/19/2021 11:58:25 PM	61367
Motor Oil Range Organics (MRO)	1400	490		mg/Kg	10	7/19/2021 11:58:25 PM	61367
Surr: DNOP	0	70-130	S	%Rec	10	7/19/2021 11:58:25 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Surr: BFB	118	70-130		%Rec	5	7/16/2021 4:47:00 PM	61351
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.12		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Toluene	ND	0.23		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Ethylbenzene	ND	0.23		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Xylenes, Total	ND	0.47		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	5	7/16/2021 4:47:00 PM	61351

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP22-7

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 1:20:00 PM

Lab ID: 2107732-015

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2100	60		mg/Kg	20	7/21/2021 1:04:13 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	230	19		mg/Kg	2	7/20/2021 12:22:09 AM	61367
Motor Oil Range Organics (MRO)	310	97		mg/Kg	2	7/20/2021 12:22:09 AM	61367
Surr: DNOP	105	70-130		%Rec	2	7/20/2021 12:22:09 AM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Surr: BFB	105	70-130		%Rec	1	7/16/2021 5:07:00 PM	61351
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Toluene	ND	0.047		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Ethylbenzene	ND	0.047		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Xylenes, Total	ND	0.093		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/16/2021 5:07:00 PM	61351

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	Value above quantitation range
	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		

Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP22-14

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 1:30:00 PM

Lab ID: 2107732-016

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1500	59		mg/Kg	20	7/21/2021 1:16:38 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2021 7:01:39 PM	61367
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/17/2021 7:01:39 PM	61367
Surr: DNOP	87.8	70-130		%Rec	1	7/17/2021 7:01:39 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Surr: BFB	110	70-130		%Rec	1	7/16/2021 5:27:00 PM	61351
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Toluene	ND	0.046		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Ethylbenzene	ND	0.046		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Xylenes, Total	ND	0.093		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	7/16/2021 5:27:00 PM	61351

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP22-20

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 1:45:00 PM

Lab ID: 2107732-017

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	150		mg/Kg	50	7/22/2021 8:15:19 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	190	48		mg/Kg	5	7/20/2021 3:30:56 PM	61367
Motor Oil Range Organics (MRO)	350	240		mg/Kg	5	7/20/2021 3:30:56 PM	61367
Surr: DNOP	144	70-130	S	%Rec	5	7/20/2021 3:30:56 PM	61367
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Surr: BFB	113	70-130		%Rec	1	7/16/2021 5:47:00 PM	61351
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Toluene	ND	0.048		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Ethylbenzene	ND	0.048		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Xylenes, Total	ND	0.096		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/16/2021 5:47:00 PM	61351

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP28-8

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 2:25:00 PM

Lab ID: 2107732-018

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2400	150		mg/Kg	50	7/22/2021 8:27:44 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/19/2021 8:39:50 PM	61383
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/19/2021 8:39:50 PM	61383
Surr: DNOP	115	70-130		%Rec	1	7/19/2021 8:39:50 PM	61383
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Surr: BFB	95.9	70-130		%Rec	1	7/19/2021 12:31:25 PM	61362
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Toluene	ND	0.049		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Xylenes, Total	ND	0.099		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/19/2021 12:31:25 PM	61362

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP28-12

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 2:30:00 PM

Lab ID: 2107732-019

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2100	150		mg/Kg	50	7/22/2021 8:40:08 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/19/2021 9:17:49 PM	61383
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/19/2021 9:17:49 PM	61383
Surr: DNOP	107	70-130		%Rec	1	7/19/2021 9:17:49 PM	61383
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Surr: BFB	96.2	70-130		%Rec	1	7/19/2021 1:42:30 PM	61362
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Toluene	ND	0.049		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Xylenes, Total	ND	0.098		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	7/19/2021 1:42:30 PM	61362

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP28-20

Project: Hornbaker BA Battery

Collection Date: 7/14/2021 2:45:00 PM

Lab ID: 2107732-020

Matrix: SOIL

Received Date: 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	570	60		mg/Kg	20	7/21/2021 2:06:15 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/19/2021 9:30:40 PM	61383
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/19/2021 9:30:40 PM	61383
Surr: DNOP	109	70-130		%Rec	1	7/19/2021 9:30:40 PM	61383
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Surr: BFB	99.5	70-130		%Rec	1	7/19/2021 2:53:38 PM	61362
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Toluene	ND	0.049		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Xylenes, Total	ND	0.099		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/19/2021 2:53:38 PM	61362

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	Value above quantitation range
	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		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61426	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61426	RunNo: 79937								
Prep Date: 7/20/2021	Analysis Date: 7/20/2021	SeqNo: 2812799 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61426	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61426	RunNo: 79937								
Prep Date: 7/20/2021	Analysis Date: 7/20/2021	SeqNo: 2812800 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: MB-61435	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61435	RunNo: 79937								
Prep Date: 7/20/2021	Analysis Date: 7/20/2021	SeqNo: 2812833 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61435	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61435	RunNo: 79937								
Prep Date: 7/20/2021	Analysis Date: 7/20/2021	SeqNo: 2812834 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.0	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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61367	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61367	RunNo: 79892								
Prep Date: 7/16/2021	Analysis Date: 7/17/2021	SeqNo: 2810639 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	10		10.00		103	70	130			

Sample ID: LCS-61367	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61367	RunNo: 79892								
Prep Date: 7/16/2021	Analysis Date: 7/17/2021	SeqNo: 2810640 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	88.4	68.9	141			
Surr: DNOP	4.6		5.000		92.7	70	130			

Sample ID: 2107732-018AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP28-8	Batch ID: 61383	RunNo: 79895								
Prep Date: 7/17/2021	Analysis Date: 7/19/2021	SeqNo: 2812448 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.2	45.87	0	83.5	15	184			
Surr: DNOP	4.3		4.587		94.2	70	130			

Sample ID: 2107732-018AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP28-8	Batch ID: 61383	RunNo: 79895								
Prep Date: 7/17/2021	Analysis Date: 7/19/2021	SeqNo: 2812450 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.8	48.78	0	92.5	15	184	16.4	23.9	
Surr: DNOP	4.7		4.878		95.8	70	130	0	0	

Sample ID: MB-61383	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61383	RunNo: 79895								
Prep Date: 7/17/2021	Analysis Date: 7/19/2021	SeqNo: 2812460 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	11		10.00		106	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-61383	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61383	RunNo: 79895								
Prep Date: 7/17/2021	Analysis Date: 7/19/2021	SeqNo: 2812461	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.7	68.9	141			
Surr: DNOP	4.9		5.000		97.0	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
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-61351	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61351				RunNo: 79869					
Prep Date: 7/15/2021	Analysis Date: 7/16/2021				SeqNo: 2809647	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: mb-61351	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61351				RunNo: 79869					
Prep Date: 7/15/2021	Analysis Date: 7/16/2021				SeqNo: 2809648	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: mb-61346	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61346				RunNo: 79857					
Prep Date: 7/15/2021	Analysis Date: 7/17/2021				SeqNo: 2809887	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	950		1000		94.8	70	130			

Sample ID: lcs-61346	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61346				RunNo: 79857					
Prep Date: 7/15/2021	Analysis Date: 7/17/2021				SeqNo: 2809888	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.2	78.6	131			
Surr: BFB	1000		1000		103	70	130			

Sample ID: mb-61362	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2810954	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	970		1000		96.5	70	130			

Sample ID: lcs-61362	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2810955	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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: Ics-61362	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2810955	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	78.6	131			
Surr: BFB	1100		1000		107	70	130			

Sample ID: 2107732-018ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP28-8	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2810957	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.22	0	89.3	61.3	114			
Surr: BFB	1000		969.0		105	70	130			

Sample ID: 2107732-018amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP28-8	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2810958	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.56	0	92.0	61.3	114	4.36	20	
Surr: BFB	1000		982.3		105	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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-61351	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 61351				RunNo: 79869					
Prep Date: 7/15/2021	Analysis Date: 7/16/2021				SeqNo: 2809738	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.3	80	120			
Toluene	0.87	0.050	1.000	0	87.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: mb-61351	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 61351				RunNo: 79869					
Prep Date: 7/15/2021	Analysis Date: 7/16/2021				SeqNo: 2809739	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: mb-61346	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 61346				RunNo: 79857					
Prep Date: 7/15/2021	Analysis Date: 7/17/2021				SeqNo: 2809955	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-61346	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 61346				RunNo: 79857					
Prep Date: 7/15/2021	Analysis Date: 7/17/2021				SeqNo: 2809956	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	85.4	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-61362	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61362	RunNo: 79883								
Prep Date: 7/15/2021	Analysis Date: 7/19/2021	SeqNo: 2811008 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-61362	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61362	RunNo: 79883								
Prep Date: 7/15/2021	Analysis Date: 7/19/2021	SeqNo: 2811009 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	89.0	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 2107732-019ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP28-12	Batch ID: 61362	RunNo: 79883								
Prep Date: 7/15/2021	Analysis Date: 7/19/2021	SeqNo: 2811012 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9833	0	81.2	80	120			
Toluene	0.84	0.049	0.9833	0	85.4	80	120			
Ethylbenzene	0.85	0.049	0.9833	0	86.5	80	120			
Xylenes, Total	2.6	0.098	2.950	0	87.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9833		102	70	130			

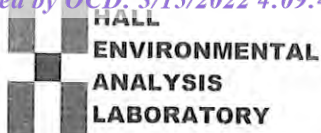
Sample ID: 2107732-019amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP28-12	Batch ID: 61362	RunNo: 79883								
Prep Date: 7/15/2021	Analysis Date: 7/19/2021	SeqNo: 2811013 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.5	80	120	3.27	20	
Toluene	0.87	0.050	1.000	0	87.2	80	120	3.79	20	
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120	4.23	20	
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120	3.62	20	
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2107732

RcptNo: 1

Received By: Cheyenne Cason

7/15/2021 7:35:00 AM

Completed By: Sean Livingston

7/15/2021 9:10:13 AM

Reviewed By:

JN 7/15/21

Cason

Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: SPA 7.15.20

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Date	Time	Matrix	Sample Name
7/14/21	750	S	TP17-8
	800		TP17-14
	815		TP17-20
	900		TP19-10
	910		TP19-14
	935		TP23-12
	945		TP23-14
	1010		TP26-8
	1030		TP26-16
	1040		TP26-20
	1115		TP27-4
X	1130	X	TP27-11

Date: 7/14/21

Time: 1640

Date: 7/14/21

Time: 1900

Relinquished by: *[Signature]*Relinquished by: *[Signature]*Relinquished by: *[Signature]*Relinquished by: *[Signature]*

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Hornbaker BA Battery

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: ~~Zach Comino~~ Heath BoydOn Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 45-0-45

HEAL No. 2107732

Container Type and #

Preservative Type

4oz. Jar 1 N/A

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMBs (8021)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

X Chloride Method 300

Received by: *[Signature]*

Date: 7/14/21

Time: 1640

Received by: *[Signature]*

Date: 7/15/21

Time: 0735

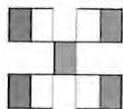
Remarks: Please email: Chase_Settle@eogresources.com;

Tom.Larson@ghd.com; Zach.Comino@ghd.com; Along with

Becky Haskell listed above.

Direct Bill to EOG Chase Settle

If necessary, samples submitted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

July 22, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2107835

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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: 2107835

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107835**Lab ID:** 2107835-001**Collection Date:** 7/15/2021 8:00:00 AM**Client Sample ID:** TP29-S**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/22/2021 5:07:24 AM	61462
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/20/2021 6:28:15 PM	61405
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/20/2021 6:28:15 PM	61405
Surr: DNOP	82.5	70-130		%Rec	1	7/20/2021 6:28:15 PM	61405
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Surr: BFB	94.9	70-130		%Rec	1	7/19/2021 11:57:58 PM	61386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Toluene	ND	0.050		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Ethylbenzene	ND	0.050		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Xylenes, Total	ND	0.10		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	7/19/2021 11:57:58 PM	61386

Lab ID: 2107835-002**Collection Date:** 7/15/2021 8:15:00 AM**Client Sample ID:** TP29-2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/22/2021 5:19:49 AM	61462
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/20/2021 6:40:18 PM	61405
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2021 6:40:18 PM	61405
Surr: DNOP	103	70-130		%Rec	1	7/20/2021 6:40:18 PM	61405
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Surr: BFB	94.6	70-130		%Rec	1	7/20/2021 1:32:02 AM	61386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Toluene	ND	0.049		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Ethylbenzene	ND	0.049		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Xylenes, Total	ND	0.098		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/20/2021 1:32:02 AM	61386

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

Qualifiers:

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

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

Analytical Report

Lab Order: 2107835

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107835

Lab ID: 2107835-003

Collection Date: 7/15/2021 8:30:00 AM

Client Sample ID: TP30-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/22/2021 5:32:13 AM	61462
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/20/2021 6:52:28 PM	61405
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2021 6:52:28 PM	61405
Surr: DNOP	99.5	70-130		%Rec	1	7/20/2021 6:52:28 PM	61405
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Surr: BFB	94.8	70-130		%Rec	1	7/20/2021 1:55:39 AM	61386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Toluene	ND	0.049		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Ethylbenzene	ND	0.049		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Xylenes, Total	ND	0.097		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	7/20/2021 1:55:39 AM	61386

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	Value above quantitation range
	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		

Analytical Report

Lab Order: 2107835

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107835**Lab ID:** 2107835-004**Collection Date:** 7/15/2021 8:35:00 AM**Client Sample ID:** TP30-2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/22/2021 5:44:38 AM	61462
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/20/2021 7:16:08 PM	61405
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2021 7:16:08 PM	61405
Surr: DNOP	88.2	70-130		%Rec	1	7/20/2021 7:16:08 PM	61405
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Surr: BFB	94.5	70-130		%Rec	1	7/20/2021 2:19:10 AM	61386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Toluene	ND	0.050		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Ethylbenzene	ND	0.050		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Xylenes, Total	ND	0.10		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	7/20/2021 2:19:10 AM	61386

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	Value above quantitation range
	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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107835

23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61462		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 61462		RunNo: 79956						
Prep Date: 7/21/2021		Analysis Date: 7/22/2021		SeqNo: 2813957			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61462		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 61462		RunNo: 79956						
Prep Date: 7/21/2021		Analysis Date: 7/22/2021		SeqNo: 2813958			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107835

23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61405	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61405	RunNo: 79945								
Prep Date: 7/19/2021	Analysis Date: 7/20/2021	SeqNo: 2813316	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	10		10.00		101	70	130			

Sample ID: LCS-61405	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61405	RunNo: 79945								
Prep Date: 7/19/2021	Analysis Date: 7/20/2021	SeqNo: 2813318	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.2	68.9	141			
Surr: DNOP	4.6		5.000		91.9	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107835

23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-61362	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 61362			RunNo: 79883						
Prep Date: 7/15/2021	Analysis Date: 7/19/2021			SeqNo: 2810954	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		96.5	70	130			

Sample ID: lcs-61362	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 61362			RunNo: 79883						
Prep Date: 7/15/2021	Analysis Date: 7/19/2021			SeqNo: 2810955	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	70	130			

Sample ID: mb-61386	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 61386			RunNo: 79883						
Prep Date: 7/17/2021	Analysis Date: 7/20/2021			SeqNo: 2810968	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	940		1000		94.1	70	130			

Sample ID: lcs-61386	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 61386			RunNo: 79883						
Prep Date: 7/17/2021	Analysis Date: 7/19/2021			SeqNo: 2810969	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.5	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107835

23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-61362	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2811008	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: LCS-61362	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2811009	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: mb-61386	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 61386				RunNo: 79883					
Prep Date: 7/17/2021	Analysis Date: 7/20/2021				SeqNo: 2811025	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		99.2	70	130			

Sample ID: LCS-61386	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 61386				RunNo: 79883					
Prep Date: 7/17/2021	Analysis Date: 7/19/2021				SeqNo: 2811026	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.7	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

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

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



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: 2107835

RcptNo: 1

Received By: Cheyenne Cason

7/16/2021 7:40:00 AM

Cason

Completed By: Isaiah Ortiz

7/16/2021 9:11:22 AM

I-Ortiz

Reviewed By:

J2 7/16/21

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: TMC 7.16.21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Not Present			

Chain-of-Custody Record

Client: GHD

Turn-Around Time: 5 Days

☒ Standard ☐ Rush

Project Name:

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)

Project Manager:

Becky Haskell

Tom Larson

Sampler: ~~Becky Haskell~~ Becky BoydOn Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CP): 34-0234

Date Time Matrix Sample Name

7/15/21 800 S TP29-3

815 TP29-2

830 TP30-3

835 X TP30-2

Container Type and #

Preservative Type

HEAL No

2107835

50402 1 N/A

- 001

- 002

- 003

- 004

Analysis Request

BTEX / MTBE / TMBs (8021)

TPH: 8015D (GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 300

Received by: Via: Date Time

11/15/21 1220

Received by: Via: Date Time

11/15/21 1900

Remarks: Please email: Chase_Settle@eogresources.com;
Tom.Larson@ghd.com; Zach.Comino@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

December 21, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2112741

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 36 sample(s) on 12/10/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-4-5

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 8:05:00 AM

Lab ID: 2112741-001

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	60		mg/Kg	20	12/16/2021 12:40:55 AM	64545
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	290	95		mg/Kg	10	12/14/2021 9:57:28 AM	64450
Motor Oil Range Organics (MRO)	480	470		mg/Kg	10	12/14/2021 9:57:28 AM	64450
Surr: DNOP	0	70-130	S	%Rec	10	12/14/2021 9:57:28 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Surr: BFB	101	70-130		%Rec	5	12/13/2021 2:31:34 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.11		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Toluene	ND	0.23		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Ethylbenzene	ND	0.23		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Xylenes, Total	ND	0.46		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	12/13/2021 2:31:34 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-4-10

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 8:10:00 AM

Lab ID: 2112741-002

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2900	150		mg/Kg	50	12/17/2021 1:37:59 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	97	9.8		mg/Kg	1	12/14/2021 10:09:29 AM	64450
Motor Oil Range Organics (MRO)	66	49		mg/Kg	1	12/14/2021 10:09:29 AM	64450
Surr: DNOP	89.8	70-130		%Rec	1	12/14/2021 10:09:29 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Surr: BFB	103	70-130		%Rec	5	12/13/2021 2:55:15 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Toluene	ND	0.23		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Ethylbenzene	ND	0.23		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Xylenes, Total	ND	0.46		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	12/13/2021 2:55:15 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-4-15

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 8:15:00 AM

Lab ID: 2112741-003

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2900	150		mg/Kg	50	12/17/2021 1:50:23 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2021 10:21:32 AM	64450
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 10:21:32 AM	64450
Surr: DNOP	86.1	70-130		%Rec	1	12/14/2021 10:21:32 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Surr: BFB	102	70-130		%Rec	5	12/13/2021 3:42:29 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Toluene	ND	0.24		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Ethylbenzene	ND	0.24		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Xylenes, Total	ND	0.48		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	12/13/2021 3:42:29 PM	64437

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	Value above quantitation range
	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 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-4-20

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 8:20:00 AM

Lab ID: 2112741-004

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2600	150		mg/Kg	50	12/17/2021 2:02:47 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	87	9.7		mg/Kg	1	12/14/2021 10:33:39 AM	64450
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 10:33:39 AM	64450
Surr: DNOP	86.9	70-130		%Rec	1	12/14/2021 10:33:39 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Surr: BFB	101	70-130		%Rec	5	12/13/2021 5:16:52 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Toluene	ND	0.23		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Ethylbenzene	ND	0.23		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Xylenes, Total	ND	0.46		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	12/13/2021 5:16:52 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-4-25

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 8:25:00 AM

Lab ID: 2112741-005

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2100	150		mg/Kg	50	12/17/2021 2:15:11 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/14/2021 10:45:49 AM	64450
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 10:45:49 AM	64450
Surr: DNOP	86.3	70-130		%Rec	1	12/14/2021 10:45:49 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Surr: BFB	102	70-130		%Rec	1	12/13/2021 5:40:20 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Toluene	ND	0.048		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Ethylbenzene	ND	0.048		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Xylenes, Total	ND	0.097		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/13/2021 5:40:20 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-4-30

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 8:30:00 AM

Lab ID: 2112741-006

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	880	60		mg/Kg	20	12/16/2021 2:32:34 AM	64545
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/14/2021 10:57:41 AM	64450
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 10:57:41 AM	64450
Surr: DNOP	88.3	70-130		%Rec	1	12/14/2021 10:57:41 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Surr: BFB	104	70-130		%Rec	1	12/13/2021 6:03:53 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Toluene	ND	0.050		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Ethylbenzene	ND	0.050		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Xylenes, Total	ND	0.099		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/13/2021 6:03:53 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-4-35

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 8:35:00 AM

Lab ID: 2112741-007

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	340	59		mg/Kg	20	12/16/2021 2:44:58 AM	64545
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/14/2021 11:09:11 AM	64450
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 11:09:11 AM	64450
Surr: DNOP	85.5	70-130		%Rec	1	12/14/2021 11:09:11 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Surr: BFB	103	70-130		%Rec	1	12/13/2021 6:27:22 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Toluene	ND	0.049		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Ethylbenzene	ND	0.049		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Xylenes, Total	ND	0.098		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/13/2021 6:27:22 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-4-40

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 8:40:00 AM

Lab ID: 2112741-008

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	150	60		mg/Kg	20	12/16/2021 2:57:22 AM	64545
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/14/2021 11:21:03 AM	64450
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 11:21:03 AM	64450
Surr: DNOP	88.2	70-130		%Rec	1	12/14/2021 11:21:03 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Surr: BFB	101	70-130		%Rec	1	12/13/2021 6:50:46 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Toluene	ND	0.048		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Ethylbenzene	ND	0.048		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Xylenes, Total	ND	0.095		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/13/2021 6:50:46 PM	64437

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	Value above quantitation range
	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 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-5

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 9:35:00 AM

Lab ID: 2112741-009

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9500	600		mg/Kg	200	12/17/2021 2:27:36 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/14/2021 11:33:28 AM	64450
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 11:33:28 AM	64450
Surr: DNOP	94.4	70-130		%Rec	1	12/14/2021 11:33:28 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Surr: BFB	104	70-130		%Rec	1	12/13/2021 7:14:16 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Toluene	ND	0.047		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Ethylbenzene	ND	0.047		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Xylenes, Total	ND	0.093		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/13/2021 7:14:16 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-10

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 9:40:00 AM

Lab ID: 2112741-010

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	11000	610		mg/Kg	200	12/17/2021 2:40:00 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/14/2021 11:45:01 AM	64450
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 11:45:01 AM	64450
Surr: DNOP	88.0	70-130		%Rec	1	12/14/2021 11:45:01 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Surr: BFB	106	70-130		%Rec	1	12/13/2021 7:37:31 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Toluene	ND	0.047		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Ethylbenzene	ND	0.047		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Xylenes, Total	ND	0.093		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/13/2021 7:37:31 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-15

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 9:45:00 AM

Lab ID: 2112741-011

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7000	300		mg/Kg	100	12/17/2021 7:56:33 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/14/2021 11:56:48 AM	64450
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 11:56:48 AM	64450
Surr: DNOP	88.5	70-130		%Rec	1	12/14/2021 11:56:48 AM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Surr: BFB	102	70-130		%Rec	1	12/13/2021 8:00:59 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Toluene	ND	0.048		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Ethylbenzene	ND	0.048		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Xylenes, Total	ND	0.096		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/13/2021 8:00:59 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-20

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 9:50:00 AM

Lab ID: 2112741-012

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7000	300		mg/Kg	100	12/17/2021 8:08:58 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/14/2021 12:08:52 PM	64450
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 12:08:52 PM	64450
Surr: DNOP	91.5	70-130		%Rec	1	12/14/2021 12:08:52 PM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Surr: BFB	103	70-130		%Rec	1	12/13/2021 8:24:27 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Toluene	ND	0.047		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Ethylbenzene	ND	0.047		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Xylenes, Total	ND	0.094		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/13/2021 8:24:27 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-25

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 9:55:00 AM

Lab ID: 2112741-013

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8500	300		mg/Kg	100	12/17/2021 8:21:22 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2021 12:20:33 PM	64450
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 12:20:33 PM	64450
Surr: DNOP	90.4	70-130		%Rec	1	12/14/2021 12:20:33 PM	64450
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Surr: BFB	104	70-130		%Rec	1	12/13/2021 8:47:56 PM	64437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Toluene	ND	0.046		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Ethylbenzene	ND	0.046		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Xylenes, Total	ND	0.092		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/13/2021 8:47:56 PM	64437

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-30

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 10:00:00 AM

Lab ID: 2112741-014

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5100	300		mg/Kg	100	12/17/2021 8:33:46 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/14/2021 4:57:08 PM	64482
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/14/2021 4:57:08 PM	64482
Surr: DNOP	94.2	70-130		%Rec	1	12/14/2021 4:57:08 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Surr: BFB	100	70-130		%Rec	1	12/14/2021 11:53:23 AM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/14/2021 11:53:23 AM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-35

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 10:05:00 AM

Lab ID: 2112741-015

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2900	150		mg/Kg	50	12/17/2021 8:46:10 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/14/2021 5:21:29 PM	64482
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 5:21:29 PM	64482
Surr: DNOP	94.5	70-130		%Rec	1	12/14/2021 5:21:29 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Surr: BFB	106	70-130		%Rec	1	12/14/2021 1:04:02 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Toluene	ND	0.046		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Xylenes, Total	ND	0.092		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/14/2021 1:04:02 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-40

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 10:10:00 AM

Lab ID: 2112741-016

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4900	150		mg/Kg	50	12/17/2021 8:58:35 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2021 5:45:42 PM	64482
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 5:45:42 PM	64482
Surr: DNOP	94.5	70-130		%Rec	1	12/14/2021 5:45:42 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Surr: BFB	103	70-130		%Rec	1	12/14/2021 2:15:00 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 2:15:00 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-45

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 10:15:00 AM

Lab ID: 2112741-017

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3600	150		mg/Kg	50	12/17/2021 9:10:59 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/14/2021 6:10:05 PM	64482
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/14/2021 6:10:05 PM	64482
Surr: DNOP	94.4	70-130		%Rec	1	12/14/2021 6:10:05 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 2:38:42 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 2:38:42 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-50

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 10:20:00 AM

Lab ID: 2112741-018

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3000	150		mg/Kg	50	12/17/2021 9:23:23 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/14/2021 6:34:17 PM	64482
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/14/2021 6:34:17 PM	64482
Surr: DNOP	96.4	70-130		%Rec	1	12/14/2021 6:34:17 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 3:02:14 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Toluene	ND	0.050		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Ethylbenzene	ND	0.050		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Xylenes, Total	ND	0.10		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/14/2021 3:02:14 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-55

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 10:25:00 AM

Lab ID: 2112741-019

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5100	300		mg/Kg	100	12/17/2021 9:35:48 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2021 6:58:41 PM	64482
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 6:58:41 PM	64482
Surr: DNOP	91.6	70-130		%Rec	1	12/14/2021 6:58:41 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Surr: BFB	102	70-130		%Rec	1	12/14/2021 3:25:47 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/14/2021 3:25:47 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-60

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 10:30:00 AM

Lab ID: 2112741-020

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6800	300		mg/Kg	100	12/17/2021 9:48:13 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/14/2021 7:22:54 PM	64482
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/14/2021 7:22:54 PM	64482
Surr: DNOP	97.6	70-130		%Rec	1	12/14/2021 7:22:54 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Surr: BFB	102	70-130		%Rec	1	12/14/2021 3:49:20 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Xylenes, Total	ND	0.095		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/14/2021 3:49:20 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-70

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 10:35:00 AM

Lab ID: 2112741-021

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	150		mg/Kg	50	12/17/2021 10:25:26 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/14/2021 7:47:10 PM	64482
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 7:47:10 PM	64482
Surr: DNOP	98.4	70-130		%Rec	1	12/14/2021 7:47:10 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Surr: BFB	105	70-130		%Rec	1	12/14/2021 4:12:50 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 4:12:50 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-80

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 12:30:00 PM

Lab ID: 2112741-022

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	530	60		mg/Kg	20	12/16/2021 5:41:36 PM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/14/2021 8:11:21 PM	64482
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 8:11:21 PM	64482
Surr: DNOP	104	70-130		%Rec	1	12/14/2021 8:11:21 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Surr: BFB	101	70-130		%Rec	1	12/14/2021 5:47:05 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/14/2021 5:47:05 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-2-85

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 1:30:00 PM

Lab ID: 2112741-023

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	59		mg/Kg	20	12/16/2021 5:53:57 PM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/14/2021 8:35:46 PM	64482
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/14/2021 8:35:46 PM	64482
Surr: DNOP	91.4	70-130		%Rec	1	12/14/2021 8:35:46 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 6:10:39 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/14/2021 6:10:39 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-5

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 1:45:00 PM

Lab ID: 2112741-024

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5900	300		mg/Kg	100	12/17/2021 10:37:51 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	12	8.7		mg/Kg	1	12/14/2021 8:59:56 PM	64482
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/14/2021 8:59:56 PM	64482
Surr: DNOP	95.3	70-130		%Rec	1	12/14/2021 8:59:56 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Surr: BFB	102	70-130		%Rec	1	12/14/2021 6:34:12 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Xylenes, Total	ND	0.097		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 6:34:12 PM	64464

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	Value above quantitation range
	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 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-10

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 1:50:00 PM

Lab ID: 2112741-025

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4600	150		mg/Kg	50	12/17/2021 10:50:15 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/14/2021 9:24:21 PM	64482
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/14/2021 9:24:21 PM	64482
Surr: DNOP	97.0	70-130		%Rec	1	12/14/2021 9:24:21 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 6:57:32 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Toluene	ND	0.049		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Xylenes, Total	ND	0.098		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 6:57:32 PM	64464

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	Value above quantitation range
	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 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-15

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 1:55:00 PM

Lab ID: 2112741-026

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6300	300		mg/Kg	100	12/17/2021 11:02:40 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/14/2021 9:48:59 PM	64482
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/14/2021 9:48:59 PM	64482
Surr: DNOP	95.7	70-130		%Rec	1	12/14/2021 9:48:59 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 7:20:48 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/14/2021 7:20:48 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-20

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 2:00:00 PM

Lab ID: 2112741-027

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5700	150		mg/Kg	50	12/17/2021 11:15:04 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	12/14/2021 10:13:16 PM	64482
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/14/2021 10:13:16 PM	64482
Surr: DNOP	103	70-130		%Rec	1	12/14/2021 10:13:16 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Surr: BFB	103	70-130		%Rec	1	12/14/2021 7:44:17 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	12/14/2021 7:44:17 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-25

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 2:05:00 PM

Lab ID: 2112741-028

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9200	590		mg/Kg	200	12/17/2021 11:27:29 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/14/2021 10:37:22 PM	64482
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 10:37:22 PM	64482
Surr: DNOP	95.2	70-130		%Rec	1	12/14/2021 10:37:22 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 8:07:52 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Toluene	ND	0.046		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 8:07:52 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-30

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 2:10:00 PM

Lab ID: 2112741-029

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5400	300		mg/Kg	100	12/17/2021 11:39:53 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/14/2021 11:01:33 PM	64482
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 11:01:33 PM	64482
Surr: DNOP	96.6	70-130		%Rec	1	12/14/2021 11:01:33 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 8:31:14 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Toluene	ND	0.049		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Xylenes, Total	ND	0.099		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/14/2021 8:31:14 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-35

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 2:15:00 PM

Lab ID: 2112741-030

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5100	150		mg/Kg	50	12/17/2021 11:52:18 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/14/2021 11:25:43 PM	64482
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/14/2021 11:25:43 PM	64482
Surr: DNOP	96.2	70-130		%Rec	1	12/14/2021 11:25:43 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 8:54:46 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Toluene	ND	0.049		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Xylenes, Total	ND	0.098		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/14/2021 8:54:46 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-40

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 2:20:00 PM

Lab ID: 2112741-031

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6800	300		mg/Kg	100	12/17/2021 12:04:42 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/14/2021 11:49:48 PM	64482
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 11:49:48 PM	64482
Surr: DNOP	98.8	70-130		%Rec	1	12/14/2021 11:49:48 PM	64482
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 9:18:18 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Xylenes, Total	ND	0.097		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 9:18:18 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-45

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 2:25:00 PM

Lab ID: 2112741-032

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7900	300		mg/Kg	100	12/17/2021 12:17:07 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/15/2021 9:20:19 AM	64497
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/15/2021 9:20:19 AM	64497
Surr: DNOP	95.2	70-130		%Rec	1	12/15/2021 9:20:19 AM	64497
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Surr: BFB	103	70-130		%Rec	1	12/14/2021 10:05:19 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 10:05:19 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-50

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 2:30:00 PM

Lab ID: 2112741-033

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6500	300		mg/Kg	100	12/17/2021 1:31:36 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/15/2021 9:30:49 AM	64497
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/15/2021 9:30:49 AM	64497
Surr: DNOP	95.1	70-130		%Rec	1	12/15/2021 9:30:49 AM	64497
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Surr: BFB	103	70-130		%Rec	1	12/14/2021 10:28:50 PM	64464
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	12/14/2021 10:28:50 PM	64464

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-60

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 3:30:00 PM

Lab ID: 2112741-034

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9100	600		mg/Kg	200	12/17/2021 12:54:21 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/15/2021 9:41:20 AM	64497
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/15/2021 9:41:20 AM	64497
Surr: DNOP	100	70-130		%Rec	1	12/15/2021 9:41:20 AM	64497
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Surr: BFB	89.1	70-130		%Rec	1	12/14/2021 8:18:00 PM	64467
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Toluene	ND	0.047		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	12/14/2021 8:18:00 PM	64467

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-70

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 4:00:00 PM

Lab ID: 2112741-035

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6000	300		mg/Kg	100	12/17/2021 1:06:46 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	12/15/2021 9:52:23 AM	64497
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/15/2021 9:52:23 AM	64497
Surr: DNOP	90.9	70-130		%Rec	1	12/15/2021 9:52:23 AM	64497
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Surr: BFB	91.6	70-130		%Rec	1	12/14/2021 8:37:00 PM	64467
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Toluene	ND	0.046		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	12/14/2021 8:37:00 PM	64467

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112741

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-1-80

Project: Hornbaker BA Battery

Collection Date: 12/8/2021 4:30:00 PM

Lab ID: 2112741-036

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6900	300		mg/Kg	100	12/17/2021 1:19:11 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	20	9.6		mg/Kg	1	12/15/2021 10:02:53 AM	64497
Motor Oil Range Organics (MRO)	51	48		mg/Kg	1	12/15/2021 10:02:53 AM	64497
Surr: DNOP	92.4	70-130		%Rec	1	12/15/2021 10:02:53 AM	64497
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Surr: BFB	88.2	70-130		%Rec	1	12/14/2021 8:57:00 PM	64467
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Toluene	ND	0.050		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Ethylbenzene	ND	0.050		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Xylenes, Total	ND	0.10		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	12/14/2021 8:57:00 PM	64467

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	Value above quantitation range
	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		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112741

21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-64545	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64545	RunNo: 84574								
Prep Date: 12/15/2021	Analysis Date: 12/15/2021	SeqNo: 2972997 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64545	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64545	RunNo: 84574								
Prep Date: 12/15/2021	Analysis Date: 12/15/2021	SeqNo: 2972998 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.7	90	110			

Sample ID: MB-64563	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64563	RunNo: 84617								
Prep Date: 12/16/2021	Analysis Date: 12/16/2021	SeqNo: 2974402 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64563	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64563	RunNo: 84617								
Prep Date: 12/16/2021	Analysis Date: 12/16/2021	SeqNo: 2974403 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.0	90	110			

Sample ID: MB-64573	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64573	RunNo: 84617								
Prep Date: 12/16/2021	Analysis Date: 12/16/2021	SeqNo: 2974432 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64573	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64573	RunNo: 84617								
Prep Date: 12/16/2021	Analysis Date: 12/16/2021	SeqNo: 2974433 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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#: 2112741

21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-64450	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 64450			RunNo: 84491						
Prep Date: 12/13/2021	Analysis Date: 12/14/2021			SeqNo: 2969644		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	68.9	135			
Surr: DNOP	4.8		5.000		95.2	70	130			

Sample ID: MB-64450	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 64450			RunNo: 84493						
Prep Date: 12/13/2021	Analysis Date: 12/14/2021			SeqNo: 2970076		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		96.4	70	130			

Sample ID: LCS-64478	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 64478			RunNo: 84516						
Prep Date: 12/14/2021	Analysis Date: 12/14/2021			SeqNo: 2970114		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.3	70	130			

Sample ID: MB-64478	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 64478			RunNo: 84516						
Prep Date: 12/14/2021	Analysis Date: 12/14/2021			SeqNo: 2970115		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.1	70	130			

Sample ID: 2112741-014AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SB-2-30	Batch ID: 64482			RunNo: 84516						
Prep Date: 12/14/2021	Analysis Date: 12/15/2021			SeqNo: 2970804		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	8.7	43.71	0	94.7	39.3	155			
Surr: DNOP	3.8		4.371		86.4	70	130			

Sample ID: 2112741-014AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SB-2-30	Batch ID: 64482			RunNo: 84516						
Prep Date: 12/14/2021	Analysis Date: 12/15/2021			SeqNo: 2970805		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.3	46.64	0	95.7	39.3	155	7.50	23.4	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
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#: 2112741

21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2112741-014AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-2-30	Batch ID: 64482	RunNo: 84516								
Prep Date: 12/14/2021	Analysis Date: 12/15/2021	SeqNo: 2970805		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		4.664		85.8	70	130	0	0	

Sample ID: LCS-64482	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64482	RunNo: 84516								
Prep Date: 12/14/2021	Analysis Date: 12/14/2021	SeqNo: 2970827		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	97.0	68.9	135			
Surr: DNOP	4.6		5.000		92.5	70	130			

Sample ID: MB-64482	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64482	RunNo: 84516								
Prep Date: 12/14/2021	Analysis Date: 12/14/2021	SeqNo: 2970828		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		96.9	70	130			

Sample ID: LCS-64497	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64497	RunNo: 84537								
Prep Date: 12/14/2021	Analysis Date: 12/15/2021	SeqNo: 2970917		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.0	68.9	135			
Surr: DNOP	4.6		5.000		92.8	70	130			

Sample ID: MB-64497	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64497	RunNo: 84537								
Prep Date: 12/14/2021	Analysis Date: 12/15/2021	SeqNo: 2970919		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		98.6	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 Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112741

21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-64437	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 64437				RunNo: 84489					
Prep Date: 12/10/2021	Analysis Date: 12/13/2021				SeqNo: 2969095	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Sample ID: lcs-64437	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 64437				RunNo: 84489					
Prep Date: 12/10/2021	Analysis Date: 12/13/2021				SeqNo: 2969096	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.6	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: MB	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: R84502				RunNo: 84502					
Prep Date:	Analysis Date: 12/14/2021				SeqNo: 2969459	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		105	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: R84502				RunNo: 84502					
Prep Date:	Analysis Date: 12/14/2021				SeqNo: 2969460	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		118	70	130			

Sample ID: mb-64467	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 64467				RunNo: 84502					
Prep Date: 12/13/2021	Analysis Date: 12/14/2021				SeqNo: 2970567	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	900		1000		89.8	70	130			

Sample ID: lcs-64467	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 64467				RunNo: 84502					
Prep Date: 12/13/2021	Analysis Date: 12/14/2021				SeqNo: 2970568	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	78.6	131			
Surr: BFB	1100		1000		106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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#: 2112741

21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-64464	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 64464		RunNo: 84531							
Prep Date: 12/13/2021	Analysis Date: 12/14/2021		SeqNo: 2970677		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		103	70	130			

Sample ID: lcs-64464	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 64464		RunNo: 84531							
Prep Date: 12/13/2021	Analysis Date: 12/14/2021		SeqNo: 2970678		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.6	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: 2112741-014ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SB-2-30	Batch ID: 64464		RunNo: 84531							
Prep Date: 12/13/2021	Analysis Date: 12/14/2021		SeqNo: 2970680		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.53	0	122	61.3	114			S
Surr: BFB	1100		981.4		114	70	130			

Sample ID: 2112741-014amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SB-2-30	Batch ID: 64464		RunNo: 84531							
Prep Date: 12/13/2021	Analysis Date: 12/14/2021		SeqNo: 2970681		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.9	24.63	0	130	61.3	114	7.16	20	S
Surr: BFB	1100		985.2		116	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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#: 2112741

21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-64437	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64437	RunNo: 84489								
Prep Date: 12/10/2021	Analysis Date: 12/13/2021	SeqNo: 2969138	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: LCS-64437	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64437	RunNo: 84489								
Prep Date: 12/10/2021	Analysis Date: 12/13/2021	SeqNo: 2969139	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	93.3	80	120			
Toluene	0.94	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: BS84502	RunNo: 84502								
Prep Date:	Analysis Date: 12/14/2021	SeqNo: 2969467	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.5	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: BS84502	RunNo: 84502								
Prep Date:	Analysis Date: 12/14/2021	SeqNo: 2969468	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	70	130			

Sample ID: mb-64467	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64467	RunNo: 84502								
Prep Date: 12/13/2021	Analysis Date: 12/14/2021	SeqNo: 2970588	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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#: 2112741

21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-64467	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 64467			RunNo: 84502						
Prep Date: 12/13/2021	Analysis Date: 12/14/2021			SeqNo: 2970588		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.82		1.000		82.2	70	130			

Sample ID: lcs-64467	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 64467			RunNo: 84502						
Prep Date: 12/13/2021	Analysis Date: 12/14/2021			SeqNo: 2970589		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.2	80	120			
Toluene	0.85	0.050	1.000	0	84.7	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.2	80	120			
Xylenes, Total	2.5	0.10	3.000	0	82.7	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		81.6	70	130			

Sample ID: mb-64464	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 64464			RunNo: 84531						
Prep Date: 12/13/2021	Analysis Date: 12/14/2021			SeqNo: 2970712		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: LCS-64464	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 64464			RunNo: 84531						
Prep Date: 12/13/2021	Analysis Date: 12/14/2021			SeqNo: 2970716		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	93.3	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: 2112741-015ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: SB-2-35	Batch ID: 64464			RunNo: 84531						
Prep Date: 12/13/2021	Analysis Date: 12/14/2021			SeqNo: 2970722		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 Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112741

21-Dec-21

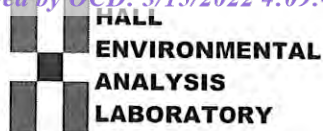
Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2112741-015ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-2-35	Batch ID: 64464	RunNo: 84531								
Prep Date: 12/13/2021	Analysis Date: 12/14/2021	SeqNo: 2970722	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9506	0	109	80	120			
Toluene	1.1	0.048	0.9506	0.01317	111	80	120			
Ethylbenzene	1.1	0.048	0.9506	0	116	80	120			
Xylenes, Total	3.3	0.095	2.852	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9506		110	70	130			

Sample ID: 2112741-015amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-2-35	Batch ID: 64464	RunNo: 84531								
Prep Date: 12/13/2021	Analysis Date: 12/14/2021	SeqNo: 2970724	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9470	0	122	80	120	10.6	20	S
Toluene	1.2	0.047	0.9470	0.01317	123	80	120	10.4	20	S
Ethylbenzene	1.2	0.047	0.9470	0	127	80	120	8.82	20	S
Xylenes, Total	3.6	0.095	2.841	0	127	80	120	9.37	20	S
Surr: 4-Bromofluorobenzene	1.1		0.9470		111	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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: 2112741

RcptNo: 1

Received By: Cheyenne Cason 12/10/2021 7:20:00 AM

Completed By: Sean Livingston 12/10/2021 8:42:40 AM

Reviewed By: *cm* 12/10/21*Client**Sean Livingston***Chain of Custody**

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

Log In

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

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

Adjusted? _____

Checked by: *TML 12/10/21***Special Handling (if applicable)**

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

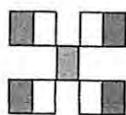
Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good				

Chain-of-Custody Record

Client: GHD			
Mailing Address:			
324 W. Main St. Suite 108, Artesia NM 88210			
Phone #:	(505)377-4218		
email or Fax#: Becky.Haskell@ghd.com			
QA/QC Package:			
☐ Standard	☐ Level 4 (Full Validation)		
Accreditation: ☐ Az Compliance			
☐ NELAC	☐ Other		
☐ EDD (Type)			
Date	Time	Matrix	Sample Name
12/28/21	0805	S	SB-4-5
	0810		SB-4-10
	0815		SB-4-15
	0820		SB-4-20
	0825		SB-4-25
	0830		SB-4-30
	0835		SB-4-35
	0840		SB-4-40
	0835		SB-2-5
	0940		SB-2-10
	0945		SB-2-15
	0950		SB-2-20
Date:	Time:	Relinquished by:	
12/28/21	0800	Zach Larson	
Date:	Time:	Relinquished by:	
12/9/21	1900	Chase	

Turn-Around Time:				
Standard	Rush 5-Day			
Project Name:				
Humbaker BA Battery				
Project #:				
1122880				
Project Manager:				
Becky Haskell				
Tom Larson				
Sampler: Zach Comino				
On Ice:	☒ Yes ☐ No			
# of Coolers: 1				
Cooler Temp (including CF): 2.6 - 0 = 2.6				
Container Type and #	Preservative Type	HEAL No.		
Jar		2112741		
		001		
		002		
		003		
		004		
		005		
		006		
		007		
		008		
		009		
		010		
		011		
		012		
Received by:		Via:	Date	Time
Chase			12/21	800
Received by:		Via:	Date	Time
Chase			12/21	0720

Analysis Request	
8081 Pesticides/8082 PCB's	PFH:8015D(GRO / DRO / MRO)
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 Nitrate 300
8081 Pesticides/8082 PCB's	PFH:8015D(GRO / DRO / MRO)
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 Nitrate 300
Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com; Matthew.Laughlin@ghd.com; Along with Becky Haskell listed above.	Direct Bill to EOG Chase Settle



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)
☒ STEK/MTBE/IMBS(8021)
☒ 8081 Pesticides/8082 PCBs
☒ EDB (Method 504.1)
☒ PAHs by 8310 or 8270SIMS
☒ RCRA 8 Metals
☒ Cl, F, Br, NO₃, NO₂, PO₄, SO₄
☒ 8260 (VOA)
☒ 8270 (Semi-VOA)
☒ Total Coliform (Present/Absent)

2
 2
 3
 300

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

Direct Bill to EOG Chase Settle

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance☐ NELAC☐ EDD (Type)

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 2.6 - 0 = 2.6

Date Time Matrix Sample Name

Container Type and #

Preservative Type

HEAL No.

Jaw

013

014

015

016

017

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019

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Relinquished by:

Zach Comino

Received by:

Manning

Date:

12/12/21

Time:

2:00

Via:

Cue Courier

Date:

12/12/21

Time:

19:00

Date:

12/12/21

Time:

19:00

Date:

12/12/21

Time:

19:00

Date:

12/12/21

Time:

19:00

Date:

12/12/21

Time:

19:00

Date:

12/12/21

Time:

19:00

Date:

12/12/21

Time:

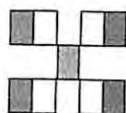
19:00

Date:

12/12/21

Time:

19:00



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

STX / MTBE / IMBS (8021)	
TPH:8015D(GRO / DRO / MBO)	
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 Nitrate 300

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

Direct Bill to EOG Chase Settle

Client: GHD		Turn-Around Time: <u>Standard</u> ☒ Rush <u>5-Day</u>	
Mailing Address:		Project Name: <u>Humbaker BA Battery</u>	
324 W. Main St. Suite 108, Artesia NM 88210		Project #: <u>11228880</u>	
Phone #: (505)377-4218		Project Manager: <u>Becky Haskell</u>	
email or Fax#: <u>Becky.Haskell@ghd.com</u>		Tom Larson	
QA/QC Package:		Sampler: <u>Zach Comino</u>	
☐ Standard ☐ Level 4 (Full Validation)		On Ice: ☒ Yes ☐ No	
Accreditation: ☐ Az Compliance		# of Coolers: <u>1</u> <u>2.6-0 = 2.6</u>	
☐ NELAC ☐ Other		Cooler Temp (including CF): <u>5.6-0</u>	
☐ EDD (Type)			

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
12/28/11	1350	S	SB-1-10	Tax		025
	1755		SB-1-15			026
	1400		SB-1-20			027
	1405		SB-1-25			028
	1410		SB-1-30			029
	1415		SB-1-35			030
	1420		SB-1-40			031
	1425		SB-1-45			032
	1470		SB-1-50			033
	1530		SB-1-60			034
	1600		SB-1-70			035
	1630		SB-1-80			036

Date: 12/28/11	Time: 0800	Relinquished by: <u>Zach Comino</u>	Received by: <u>Becky Haskell</u>	Via: <u>air</u>	Date: 12/28/11	Time: 0800
Date: 12/29/11	Time: 1900	Relinquished by: <u>Becky Haskell</u>	Received by: <u>Becky Haskell</u>	Via: <u>air</u>	Date: 12/29/11	Time: 0800

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

December 28, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2112A31

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 16 sample(s) on 12/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 5'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 7:35:00 AM

Lab ID: 2112A31-001

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	60		mg/Kg	20	12/21/2021 11:46:39 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	250	99		mg/Kg	10	12/20/2021 10:06:34 PM	64586
Motor Oil Range Organics (MRO)	610	500		mg/Kg	10	12/20/2021 10:06:34 PM	64586
Surr: DNOP	0	70-130	S	%Rec	10	12/20/2021 10:06:34 PM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Surr: BFB	87.9	70-130		%Rec	1	12/17/2021 5:36:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Toluene	ND	0.047		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Ethylbenzene	ND	0.047		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Xylenes, Total	ND	0.093		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Surr: 4-Bromofluorobenzene	78.9	70-130		%Rec	1	12/17/2021 5:36:00 PM	64571

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	Value above quantitation range
	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 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 10'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 7:40:00 AM

Lab ID: 2112A31-002

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	60		mg/Kg	20	12/22/2021 12:23:41 AM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	9.0	9.0		mg/Kg	1	12/20/2021 10:37:57 PM	64586
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/20/2021 10:37:57 PM	64586
Surr: DNOP	129	70-130		%Rec	1	12/20/2021 10:37:57 PM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Surr: BFB	87.0	70-130		%Rec	1	12/17/2021 6:35:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Toluene	ND	0.047		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Ethylbenzene	ND	0.047		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Xylenes, Total	ND	0.095		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	12/17/2021 6:35:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 15'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 7:45:00 AM

Lab ID: 2112A31-003

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3200	150		mg/Kg	50	12/22/2021 4:48:01 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/20/2021 10:58:52 PM	64586
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 10:58:52 PM	64586
Surr: DNOP	125	70-130		%Rec	1	12/20/2021 10:58:52 PM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Surr: BFB	86.9	70-130		%Rec	1	12/17/2021 7:34:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	12/17/2021 7:34:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 20'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 7:50:00 AM

Lab ID: 2112A31-004

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6100	300		mg/Kg	100	12/22/2021 5:00:22 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/20/2021 11:09:20 PM	64586
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 11:09:20 PM	64586
Surr: DNOP	103	70-130		%Rec	1	12/20/2021 11:09:20 PM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Surr: BFB	87.2	70-130		%Rec	1	12/17/2021 7:53:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Surr: 4-Bromofluorobenzene	79.5	70-130		%Rec	1	12/17/2021 7:53:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 25'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 7:55:00 AM

Lab ID: 2112A31-005

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5500	300		mg/Kg	100	12/22/2021 5:12:43 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/20/2021 11:19:50 PM	64586
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 11:19:50 PM	64586
Surr: DNOP	101	70-130		%Rec	1	12/20/2021 11:19:50 PM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Surr: BFB	87.4	70-130		%Rec	1	12/17/2021 8:13:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Toluene	ND	0.050		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Surr: 4-Bromofluorobenzene	80.0	70-130		%Rec	1	12/17/2021 8:13:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 30'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 8:00:00 AM

Lab ID: 2112A31-006

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5900	300		mg/Kg	100	12/22/2021 5:25:04 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/20/2021 11:30:21 PM	64586
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/20/2021 11:30:21 PM	64586
Surr: DNOP	102	70-130		%Rec	1	12/20/2021 11:30:21 PM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Surr: BFB	87.1	70-130		%Rec	1	12/17/2021 8:33:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	12/17/2021 8:33:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 35'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 8:05:00 AM

Lab ID: 2112A31-007

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	6500	300		mg/Kg	100	12/23/2021 1:24:30 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/20/2021 11:40:54 PM	64586
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/20/2021 11:40:54 PM	64586
Surr: DNOP	101	70-130		%Rec	1	12/20/2021 11:40:54 PM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Surr: BFB	89.9	70-130		%Rec	1	12/17/2021 8:52:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Xylenes, Total	ND	0.097		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Surr: 4-Bromofluorobenzene	78.0	70-130		%Rec	1	12/17/2021 8:52:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 40'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 8:10:00 AM

Lab ID: 2112A31-008

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	7100	300		mg/Kg	100	12/23/2021 5:57:29 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/20/2021 11:51:28 PM	64586
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/20/2021 11:51:28 PM	64586
Surr: DNOP	101	70-130		%Rec	1	12/20/2021 11:51:28 PM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Surr: BFB	85.6	70-130		%Rec	1	12/17/2021 9:12:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Surr: 4-Bromofluorobenzene	77.9	70-130		%Rec	1	12/17/2021 9:12:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 45'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 8:15:00 AM

Lab ID: 2112A31-009

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	6900	300		mg/Kg	100	12/23/2021 1:49:20 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	7.8		mg/Kg	1	12/21/2021 12:02:03 AM	64586
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	12/21/2021 12:02:03 AM	64586
Surr: DNOP	126	70-130		%Rec	1	12/21/2021 12:02:03 AM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Surr: BFB	92.4	70-130		%Rec	1	12/17/2021 9:32:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	12/17/2021 9:32:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 50'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 8:20:00 AM

Lab ID: 2112A31-010

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5400	300		mg/Kg	100	12/23/2021 2:01:45 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/21/2021 12:12:40 AM	64586
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2021 12:12:40 AM	64586
Surr: DNOP	136	70-130	S	%Rec	1	12/21/2021 12:12:40 AM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Surr: BFB	87.4	70-130		%Rec	1	12/17/2021 9:51:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	12/17/2021 9:51:00 PM	64571

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	Value above quantitation range
	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 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 55'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 9:35:00 AM

Lab ID: 2112A31-011

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5500	300		mg/Kg	100	12/23/2021 2:14:09 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/21/2021 12:23:27 AM	64586
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2021 12:23:27 AM	64586
Surr: DNOP	110	70-130		%Rec	1	12/21/2021 12:23:27 AM	64586
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Surr: BFB	89.4	70-130		%Rec	1	12/17/2021 10:50:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Toluene	ND	0.050		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Surr: 4-Bromofluorobenzene	79.3	70-130		%Rec	1	12/17/2021 10:50:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 60'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 10:00:00 AM

Lab ID: 2112A31-012

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5000	300		mg/Kg	100	12/23/2021 2:26:33 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/20/2021 9:25:26 AM	64609
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/20/2021 9:25:26 AM	64609
Surr: DNOP	86.4	70-130		%Rec	1	12/20/2021 9:25:26 AM	64609
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Surr: BFB	90.1	70-130		%Rec	1	12/17/2021 11:09:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Toluene	ND	0.048		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Ethylbenzene	ND	0.048		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Xylenes, Total	ND	0.096		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	12/17/2021 11:09:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 70'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 10:30:00 AM

Lab ID: 2112A31-013

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2300	150		mg/Kg	50	12/23/2021 2:38:57 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/20/2021 9:59:31 AM	64609
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 9:59:31 AM	64609
Surr: DNOP	83.0	70-130		%Rec	1	12/20/2021 9:59:31 AM	64609
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Surr: BFB	88.9	70-130		%Rec	1	12/17/2021 11:29:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Toluene	ND	0.046		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Ethylbenzene	ND	0.046		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Xylenes, Total	ND	0.092		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	12/17/2021 11:29:00 PM	64571

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	Value above quantitation range
	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 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 75'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 10:40:00 AM

Lab ID: 2112A31-014

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5100	300		mg/Kg	100	12/23/2021 2:51:21 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/20/2021 10:11:16 AM	64609
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/20/2021 10:11:16 AM	64609
Surr: DNOP	88.4	70-130		%Rec	1	12/20/2021 10:11:16 AM	64609
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Surr: BFB	95.5	70-130		%Rec	1	12/17/2021 11:48:00 PM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Toluene	ND	0.048		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Ethylbenzene	ND	0.048		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Xylenes, Total	ND	0.097		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	12/17/2021 11:48:00 PM	64571

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	Value above quantitation range
	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		

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Analytical Report

Lab Order 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 85'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 11:25:00 AM

Lab ID: 2112A31-015

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	12/22/2021 1:30:27 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	9.5	9.4		mg/Kg	1	12/20/2021 10:22:23 AM	64609
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 10:22:23 AM	64609
Surr: DNOP	76.8	70-130		%Rec	1	12/20/2021 10:22:23 AM	64609
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Surr: BFB	91.3	70-130		%Rec	1	12/18/2021 12:08:00 AM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Toluene	ND	0.047		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Ethylbenzene	ND	0.047		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Xylenes, Total	ND	0.094		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	12/18/2021 12:08:00 AM	64571

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	Value above quantitation range
	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 2112A31

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3- 90'

Project: Hornbaker BA Battery

Collection Date: 12/14/2021 11:45:00 AM

Lab ID: 2112A31-016

Matrix: SOIL

Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	12/22/2021 1:42:47 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	48	8.9		mg/Kg	1	12/20/2021 10:33:40 AM	64609
Motor Oil Range Organics (MRO)	110	44		mg/Kg	1	12/20/2021 10:33:40 AM	64609
Surr: DNOP	90.9	70-130		%Rec	1	12/20/2021 10:33:40 AM	64609
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Surr: BFB	94.9	70-130		%Rec	1	12/18/2021 12:27:00 AM	64571
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Toluene	ND	0.046		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Ethylbenzene	ND	0.046		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Xylenes, Total	ND	0.092		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	12/18/2021 12:27:00 AM	64571

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	Value above quantitation range
	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		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112A31

28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-64679	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64679	RunNo: 84700								
Prep Date: 12/21/2021	Analysis Date: 12/21/2021	SeqNo: 2979632	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64679	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64679	RunNo: 84700								
Prep Date: 12/21/2021	Analysis Date: 12/21/2021	SeqNo: 2979633	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Sample ID: MB-64682	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64682	RunNo: 84755								
Prep Date: 12/22/2021	Analysis Date: 12/22/2021	SeqNo: 2980609	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64682	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64682	RunNo: 84755								
Prep Date: 12/22/2021	Analysis Date: 12/22/2021	SeqNo: 2980610	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			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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#: 2112A31

28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-64609	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64609	RunNo: 84660								
Prep Date: 12/20/2021	Analysis Date: 12/20/2021	SeqNo: 2976310 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	8.4		10.00		84.4	70	130			

Sample ID: LCS-64609	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64609	RunNo: 84660								
Prep Date: 12/20/2021	Analysis Date: 12/20/2021	SeqNo: 2976311 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	68.9	135			
Surr: DNOP	4.2		5.000		83.9	70	130			

Sample ID: 2112A31-012AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-3- 60'	Batch ID: 64609	RunNo: 84660								
Prep Date: 12/20/2021	Analysis Date: 12/20/2021	SeqNo: 2977087 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.60	0	96.5	39.3	155			
Surr: DNOP	4.3		4.960		86.7	70	130			

Sample ID: 2112A31-012AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-3- 60'	Batch ID: 64609	RunNo: 84660								
Prep Date: 12/20/2021	Analysis Date: 12/20/2021	SeqNo: 2977088 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.6	47.98	0	95.6	39.3	155	4.24	23.4	
Surr: DNOP	4.1		4.798		85.9	70	130	0	0	

Sample ID: MB-64586	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64586	RunNo: 84661								
Prep Date: 12/17/2021	Analysis Date: 12/20/2021	SeqNo: 2977486 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	11		10.00		108	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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#: 2112A31
28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-64586	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64586	RunNo: 84661								
Prep Date: 12/17/2021	Analysis Date: 12/20/2021	SeqNo: 2977487			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	91.6	68.9	135			
Surr: DNOP	4.5		5.000		90.4	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

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112A31

28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-64571	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64571	RunNo: 84642								
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975678 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	930		1000		92.6	70	130			

Sample ID: lcs-64571	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64571	RunNo: 84642								
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975680 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.7	78.6	131			
Surr: BFB	1000		1000		101	70	130			

Sample ID: 2112A31-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SB-3- 5'	Batch ID: 64571	RunNo: 84642								
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975682 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.7	23.34	0	118	61.3	114			S
Surr: BFB	920		933.7		98.5	70	130			

Sample ID: 2112A31-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SB-3- 5'	Batch ID: 64571	RunNo: 84642								
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975684 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.6	23.21	0	116	61.3	114	2.68	20	S
Surr: BFB	960		928.5		104	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 Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112A31

28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-64571	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64571	RunNo: 84642								
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975726 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	0.81		1.000		81.2	70	130			

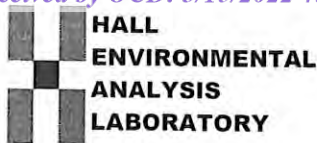
Sample ID: lcs-64571	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64571	RunNo: 84642								
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975728 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	0.88	0.050	1.000	0	88.0	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.5	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.9	70	130			

Sample ID: 2112A31-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-3- 10'	Batch ID: 64571	RunNo: 84642								
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975730 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9479	0	101	80	120			
Toluene	0.95	0.047	0.9479	0	101	80	120			
Ethylbenzene	0.95	0.047	0.9479	0	101	80	120			
Xylenes, Total	2.8	0.095	2.844	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	0.76		0.9479		80.3	70	130			

Sample ID: 2112A31-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-3- 10'	Batch ID: 64571	RunNo: 84642								
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975732 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9443	0	94.4	80	120	6.75	20	
Toluene	0.88	0.047	0.9443	0	92.8	80	120	8.30	20	
Ethylbenzene	0.88	0.047	0.9443	0	92.7	80	120	8.43	20	
Xylenes, Total	2.6	0.094	2.833	0	90.5	80	120	8.11	20	
Surr: 4-Bromofluorobenzene	0.74		0.9443		78.4	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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: 2112A31

RcptNo: 1

Received By: Cheyenne Cason 12/16/2021 7:52:00 AM

Completed By: Desiree Dominguez 12/16/2021 9:51:10 AM

Reviewed By: *MDG* 12/16/21Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *JD 12/16/21*Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

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



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

January 19, 2022

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

RE: Horubaker BA Battery

OrderNo.: 2201366

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/11/2022 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 2201366

Date Reported: 1/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SB-3-95

Project: Horubaker BA Battery

Collection Date: 1/7/2022 9:00:00 AM

Lab ID: 2201366-001

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	1/14/2022 1:51:44 PM	65024
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/13/2022 7:31:20 PM	64980
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2022 7:31:20 PM	64980
Surr: DNOP	70.5	70-130		%Rec	1	1/13/2022 7:31:20 PM	64980
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Surr: BFB	90.5	70-130		%Rec	1	1/12/2022 4:32:00 PM	64958
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Toluene	ND	0.049		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	1/12/2022 4:32:00 PM	64958

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		

Page 1 of 5

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2201366
19-Jan-22

Client: GHD Midland
Project: Horubaker BA Battery

Sample ID: MB-65024	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 65024	RunNo: 85168
Prep Date: 1/14/2022	Analysis Date: 1/14/2022	SeqNo: 2996994 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-65024	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 65024	RunNo: 85168
Prep Date: 1/14/2022	Analysis Date: 1/14/2022	SeqNo: 2996995 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.1 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#: 2201366

19-Jan-22

Client: GHD Midland
Project: Horubaker BA Battery

Sample ID: MB-64980	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64980	RunNo: 85152								
Prep Date: 1/12/2022	Analysis Date: 1/13/2022	SeqNo: 2995661	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		89.2	70	130			

Sample ID: LCS-64980	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64980	RunNo: 85152								
Prep Date: 1/12/2022	Analysis Date: 1/13/2022	SeqNo: 2995662	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	68.9	135			
Surr: DNOP	4.6		5.000		91.8	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#: 2201366

19-Jan-22

Client: GHD Midland
Project: Horubaker BA Battery

Sample ID: mb-64958	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64958	RunNo: 85110								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994495	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	890		1000		88.9	70	130			

Sample ID: lcs-64958	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64958	RunNo: 85110								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994497	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	78.6	131			
Surr: BFB	1000		1000		102	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#: 2201366

19-Jan-22

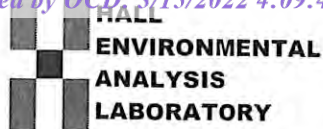
Client: GHD Midland
Project: Horubaker BA Battery

Sample ID: mb-64958	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64958	RunNo: 85110								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994523	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		91.7	70	130			

Sample ID: lcs-64958	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64958	RunNo: 85110								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994524	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	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
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Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2201366

RcptNo: 1

Received By: Cheyenne Cason 1/11/2022 8:00:00 AM

Completed By: Sean Livingston 1/11/2022 9:00:16 AM

Reviewed By: KPG 1/11/22 9:45

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐ Not frozen.
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: Cue 1/11/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.4	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

Standard

Rush 5-day

Project Name:

Humbler BA Billing

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Zach Comino

On Ice:

☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CP): 0.8-10.4 = -0.4

Date Time Matrix Sample Name

01/22/2020

1

0710

S

SB-3-95

1

SB-3-100

2201366

HEAL No.

001

002

Container Type and #

Preservative Type

HEAL No.

2201366

001

002

Date:

Time:

Relinquished by:

Zach Comino

Received by:

Date

Time

11/02/20

0800

Via:

Chase Comino

11/02/20

0800

Date

Time

11/02/20

0800

Via:

Chase Comino

11/02/20

0800

Date

Time

11/02/20

0800

Via:

Chase Comino

11/02/20

0800

Date

Time

11/02/20

0800

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District I

1625 N. French Dr., Hobbs, NM 88240
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 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 90593

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 90593
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	The OCD requires confirmation bottomhole and sidewall samples be collected by way of five (5) point composite samples from areas representing no greater than six hundred (500) square feet.	4/12/2022
chensley	Variance for rule NMAC 19.15.29.12 is denied. All containments below 4 feet bgs are to be remediated to table 1 standards.	4/12/2022
chensley	Closure due by 07/12/2022.	4/12/2022