

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)

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

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

State of New Mexico
Oil Conservation Division

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<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Chase Settle</u>	Title: <u>Rep Safety & Environmental Sr</u>
Signature: <u><i>Chase Settle</i></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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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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: _____ Date: _____

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

Signature: Bradford Billings Date: 04/28/2022

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle

Title: Rep Safety & Environmental Sr

Signature: Chase Settle

Date: 9/15/2022

email: Chase_Settle@eogresources.com

Telephone: 575-748-1471

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui

Date: 09/20/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

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

Our ref: 11228980

September 15, 2022

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

Re: Site Closure Report
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 Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of remedial activities conducted in the affected area at the EOG Hornbaker BA Battery Site (Site). 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.

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 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, Remediation Plan, and Closure 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).

As indicated in the previously submitted Site Characterization and Remediation Work Plan, dated April 26, 2022, GHD, on behalf of EOG, proposed 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. The Site Characterization and Remediation Work Plan was approved by the NMOCD on April 28, 2022. Details of the Site Characterization documentation and previously completed Site assessment activities can be found in the aforementioned Site Characterization and Remediation Work Plan.

Area A:

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)

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

Area B:

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)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Initial Soil Delineation Assessment Summary and Findings

On June 10 through July 15, 2021, 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 below ground surface (bgs). All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

Analytical results indicated eleven (11) of eighteen (18) test pits in Area A had samples exceeding applicable Table I Closure Criteria (**Standard A**) 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 (TP19 through TP30) installed with none of the samples exceeding applicable Table I Closure Criteria (**Standard B**) for depth to groundwater greater than one hundred (100) feet.

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 Closure Criteria (**Standard A**) at depths ranging from five (5) to ninety (90) feet bgs. Soil boring SB-3 also exhibited TPH concentrations above Table I Closure Criteria (**Standard A**) 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) feet bgs. Area B, Soil Boring SB-4 analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below Table I Closure Criteria (**Standard B**). Sample locations and analytical results are provided in the Site Characterization and Remediation Work Plan, dated April 26, 2022.

5. Excavation, Confirmation Sampling, and Waste Management

Due to the initial soil sampling activities exhibiting BTEX, TPH, and chloride concentrations above NMOC 19.15.29.13 Closure Criteria, GHD and Standard Safety and Supply (SS) mobilized to the Site on May 9, 2022, to excavate the affected soils. Excavation activities continued through June 30, 2022. As previously discussed, and approved by the NMOC, the Site was divided into two areas; Area A and Area B. Area A Closure Criteria (**Standard A**) is for depth to groundwater less than fifty (50) feet with an approved variance by NMOC for the installation of a twenty (20) millimeter synthetic liner at six (6) feet bgs. Area B Closure Criteria (**Standard B**) is for depth to groundwater greater than one hundred (100) feet.

Area A:

The final dimensions of Area A excavation measure approximately one hundred ninety-two (192) feet long, ranges in width from approximately one hundred seven (107) to one hundred eighty-four (184) feet, and ranges

in depth from six (6) to twenty and one-half (20.5) feet. One hundred two (102) bottom hole (BH-1 through BH-27, BH-74 through BH-139, BH-141, BH-142, BH-144, BH-145, and BH-153 through BH-157) and twenty-eight (28) sidewall (SW-1 through SW-16 and SW-26 through SW-37) initial composite confirmation samples were collected. Composite confirmation samples represented areas no larger than two hundred (200) square feet. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated two (2) bottom hole and one (1) sidewall confirmation samples exhibited TPH concentrations above Table I Closure Criteria (**Standard A**): BH-20, BH-21, and SW-14. Additionally, sixty-eight (68) bottom hole and fifteen (15) sidewall composite confirmation samples exhibited chloride concentrations above Table I Closure Criteria (**Standard A**). None of the remaining forty-seven (47) composite confirmation samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria (**Standard A**). The locations of composite confirmation samples are depicted on Figure 2. Analytical results for confirmation samples are provided on Table 1 and in the Laboratory Analytical Reports provided in Attachment A.

Due to confirmation samples exhibiting TPH concentrations above Table I Closure Criteria, GHD and SS returned to the Site on June 30, 2022, to further excavate the affected area. The areas around BH-20 and BH-21 were further excavated one-half (0.5) foot deeper to fourteen and one-half (14.5) feet total depth and resampled (BH-20A and BH-21A). The sidewall at the SW-14 location was excavated further and resampled (SW-14A). The confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated none of the confirmation samples exhibited benzene, BTEX, or TPH concentrations above Table I Closure Criteria (**Standard A**). Due to the extent of the area with chloride concentrations in exceedance of Table I Closure Criteria (**Standard A**), those concentrations were left in place and a twenty (20) millimeter synthetic liner was installed at the six (6) foot bgs interval of the excavation (excavation extended ten (10) feet beyond clean, non-contaminated perimeter sidewalls in all directions) over the affected area, as per the approved work plan. The locations of composite confirmation samples are depicted on Figure 2. Analytical results for confirmation samples are provided on Table 1, and in the Laboratory Analytical Reports provided in Attachment A.

Area B:

The final dimensions of Area B excavation measure approximately one hundred twenty-seven (127) ft long, ranges in width from approximately fifteen (15) to one hundred eight (108) feet, and ranges in depth from four (4) to six (6) feet deep. Fifty-five (55) bottom hole (BH-28 through BH-72, BH-140, BH-143, BH-146 through BH-152) and eleven (11) sidewall (SW-17 through SW-25, SW-38, and SW-39) composite confirmation samples were collected. Composite confirmation samples represented areas no larger than two hundred (200) square feet. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated none of the confirmation samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria (**Standard B**). The locations of composite confirmation samples are depicted on Figure 2. Analytical results for confirmation samples are provided on Table 1 and in the Laboratory Analytical Reports provided in Attachment A.

Area A and Area B:

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 13,422 tons of impacted soil were disposed at Lea

Land, LLC, the waste manifests from May 9 through June 28, 2022, are available upon request and are not included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2. A photographic log is included as Attachment B. Confirmation Sampling Notifications are provided at Attachment C.

6. nAPP2115335335 Closure Request

The excavation has been backfilled with non-impacted material with the seeding of the Site to occur with the further decommissioning and reclamation associated with the Site retirement activities. Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOC guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2115335335.

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

Sincerely,

GHD



J.T. Murrey
Senior Project Manager



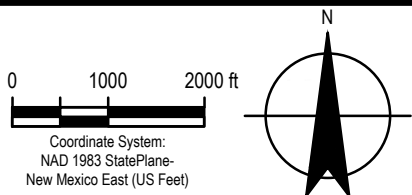
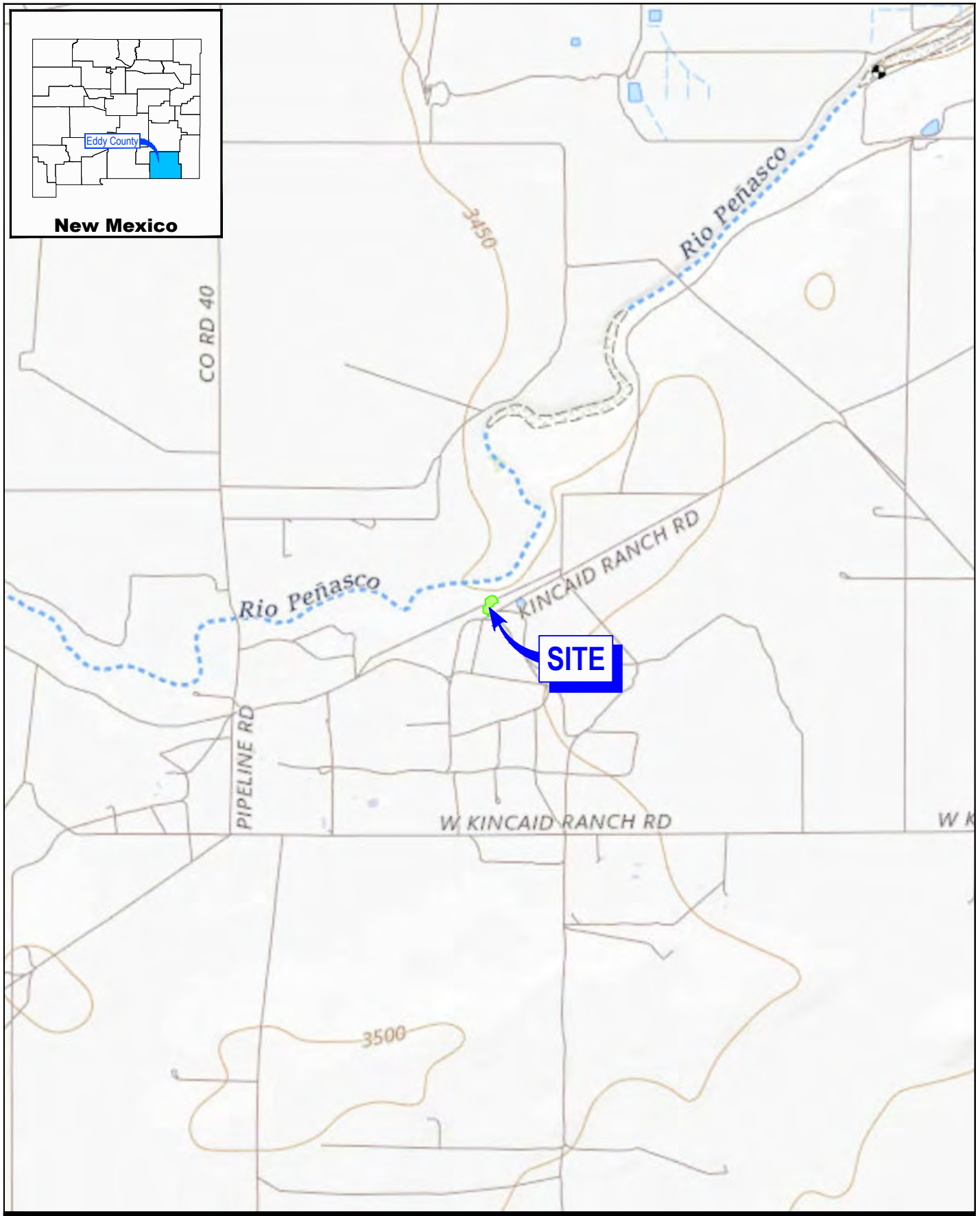
Nate Reece
Environmental Scientist

NR/jt/1

Encl. Figure 1 – Site Location Map
 Figure 2 – Excavation and Confirmation Sampling Locations Map
 Table 1 – Summary of Soil Analytical
 Table 2 – Soil Disposal Summary
 Attachment A – Laboratory Analytical Reports and Chain-of-Custody Documentation
 Attachment B – Photographic Log
 Attachment C – Sampling Notifications

cc: Amber Griffin/Chase Settle

Figures

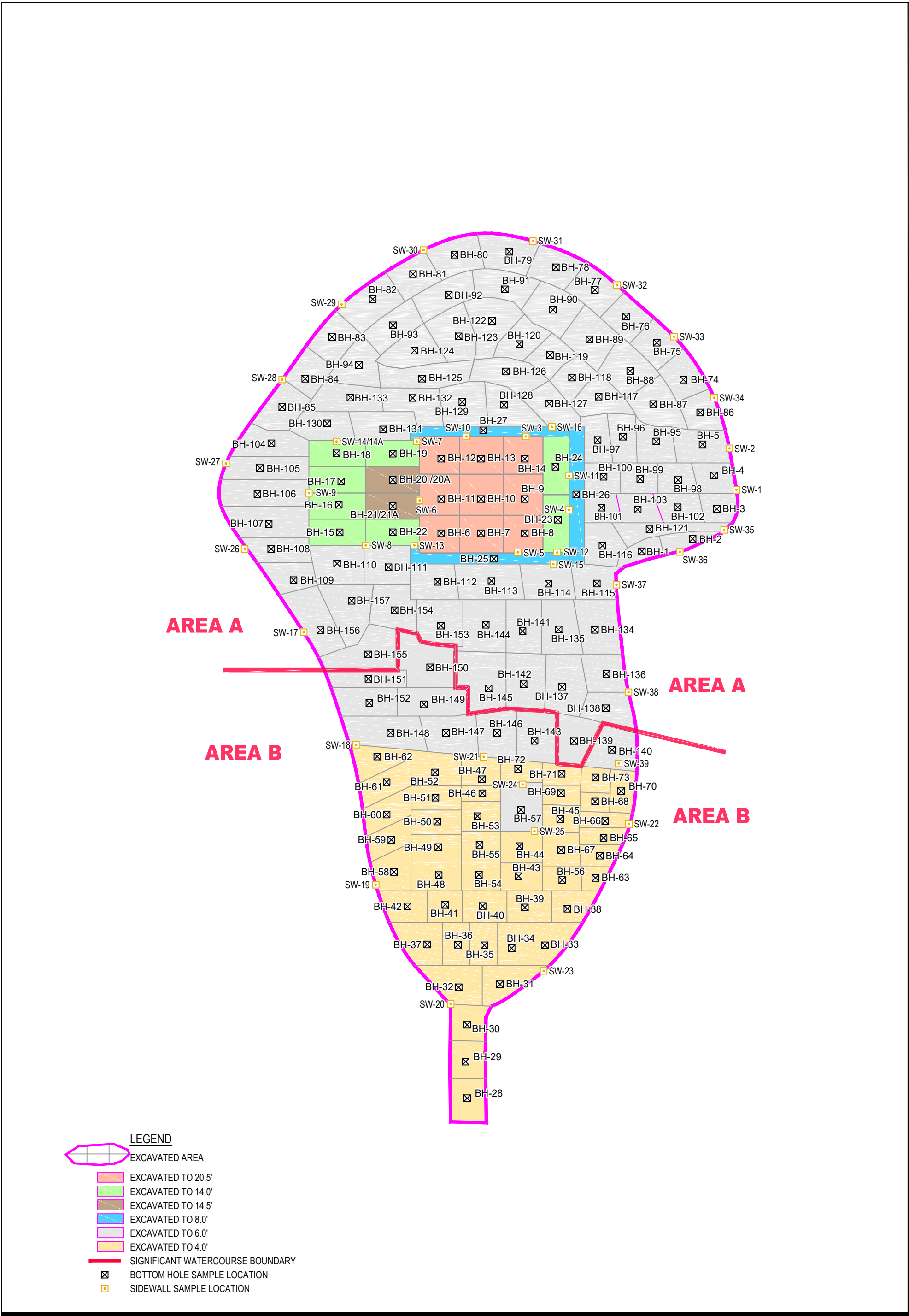


EOG RESOURCES
EDDY COUNTY, NEW MEXICO
HORNBAKER BA BATTERY

Project No. 11228980-02
Date December 2021

SITE LOCATION MAP

FIGURE 1



Tables

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

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/M RO	
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
10	---	---	---	50	---	---	---	100	600			
Bottom Hole Composite Confirmation Samples												
BH-1	5/16/2022	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	3,700
BH-2	5/17/2022	6	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	<49	<49	3,500
BH-3	5/24/2022	6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<47	1,300
BH-4	5/24/2022	6	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<48	<48	740
BH-5	5/25/2022	6	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	970
BH-6	6/9/2022	20.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<49	11,000
BH-7	6/9/2022	20.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<50	<50	4,700
BH-8	6/9/2022	20.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	24	<46	24	3,400
BH-9	6/9/2022	20.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<50	4,700
BH-10	6/9/2022	20.5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<15	<50	<50	2,400
BH-11	6/9/2022	20.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	8,800
BH-12	6/9/2022	20.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	9,400
BH-13	6/9/2022	20.5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<48	<48	8,400
BH-14	6/9/2022	20.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<48	<48	3,600
BH-15	6/9/2022	14	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<48	<48	2,400
BH-16	6/9/2022	14	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	15	<45	15	3,800
BH-17	6/9/2022	14	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	3,000
BH-18	6/9/2022	14	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<50	9,800
BH-19	6/9/2022	14	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<15	<49	<49	9,300
BH-20	6/9/2022	14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	82	88	170	2,200
BH-20A	6/30/2022	14.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	4,300
BH-21	6/9/2022	14	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	40	65	105	3,200
BH-21A	6/30/2022	14.5	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<14	<48	<48	8,000
BH-22	6/9/2022	14	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<15	<48	<48	3,000
BH-23	6/9/2022	14	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<13	<45	<45	7,600
BH-24	6/9/2022	14	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<14	<45	<45	7,800
BH-25	6/9/2022	8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	3,500
BH-26	6/9/2022	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	2,800
BH-27	6/9/2022	8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<13	<44	<44	4,400

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

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/M RO	
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
10	---	---	---	50	---	---	---	100	600			
BH-74	6/29/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<14	<48	<48	480
BH-75	6/29/2022	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<46	<46	230
BH-76	6/29/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<49	<49	85
BH-77	6/29/2022	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<48	850
BH-78	6/29/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<49	<49	740
BH-79	6/29/2022	6	<0.025	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<49	<49	130
BH-80	6/29/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<46	<46	<59
BH-81	6/29/2022	6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<48	<48	66
BH-82	6/29/2022	6	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<13	<44	<44	110
BH-83	6/29/2022	6	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<14	<46	<46	180
BH-84	6/29/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<14	<46	<46	550
BH-85	6/29/2022	6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<48	<48	580
BH-86	6/29/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<14	<45	<45	330
BH-87	6/29/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<45	<45	62
BH-88	6/29/2022	6	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<14	<48	<48	180
BH-89	6/29/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<48	<48	840
BH-90	6/29/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<49	<49	350
BH-91	6/29/2022	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	220
BH-92	6/29/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<14	<46	<46	240
BH-93	6/29/2022	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<48	<48	890
BH-94	6/29/2022	6	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<14	<46	<46	100
BH-95	6/29/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<49	<49	330
BH-96	6/29/2022	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<13	<43	<43	840
BH-97	6/29/2022	6	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<14	<48	<48	1,600
BH-98	6/29/2022	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<46	930
BH-99	6/29/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<14	<47	<47	500
BH-100	6/29/2022	6	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<13	<44	<44	260
BH-101	6/29/2022	6	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<14	<48	<48	480
BH-102	6/29/2022	6	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<14	<48	<48	670
BH-103	6/29/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<48	<48	970

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

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/M RO	
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
10	---	---	---	50	---	---	---	100	600			
BH-104	6/29/2022	6	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<14	<47	<47	4,900
BH-105	6/29/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<13	<45	<45	2,100
BH-106	6/29/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<48	<48	2,600
BH-107	6/29/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<14	<46	<46	4,200
BH-108	6/29/2022	6	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<13	<45	<45	4,100
BH-109	6/29/2022	6	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<15	<50	<50	3,200
BH-110	6/29/2022	6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<13	<45	<45	4,900
BH-111	6/29/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<46	<46	3,100
BH-112	6/29/2022	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<46	<46	6,300
BH-113	6/29/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<14	<46	<46	5,500
BH-114	6/29/2022	6	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<14	<45	<45	4,600
BH-115	6/29/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	3,200
BH-116	6/29/2022	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<48	6,100
BH-117	6/29/2022	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<45	<45	4,000
BH-118	6/29/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<48	<48	4,900
BH-119	6/29/2022	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<48	<48	400
BH-120	6/29/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<46	<46	230
BH-121	6/29/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<13	<44	<44	440
BH-122	6/29/2022	6	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<14	<48	<48	610
BH-123	6/29/2022	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<13	<45	<45	730
BH-124	6/30/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<49	<49	1,700
BH-125	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	5,000
BH-126	6/30/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	20	<48	20	5,900
BH-127	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	27	<50	27	4,900
BH-128	6/30/2022	6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<48	<48	1,600
BH-129	6/30/2022	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<45	<45	91
BH-130	6/30/2022	6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<50	<50	2,700
BH-131	6/30/2022	6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<48	<48	<61
BH-132	6/30/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<48	<48	1,200
BH-133	6/30/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<14	<47	<47	110

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

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/M RO	
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
10	---	---	---	50	---	---	---	100	600			
BH-134	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<50	<50	5,500
BH-135	6/30/2022	6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<47	<47	1,500
BH-136	6/30/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<15	<49	<49	4,800
BH-137	6/30/2022	6	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<15	<49	<49	320
BH-138	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	250
BH-139	6/30/2022	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<48	<48	1,200
BH-141	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	200
BH-142	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<48	<48	530
BH-144	6/30/2022	6	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<15	<49	<49	300
BH-145	6/30/2022	6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<14	<47	<47	510
BH-153	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	2,100
BH-154	6/30/2022	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<49	7,000
BH-155	6/30/2022	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<48	<48	11,000
BH-156	6/30/2022	6	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<15	<49	<49	5,700
BH-157	6/30/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<48	<48	10,000
Sidewall Composite Confirmation Samples												
SW-1	5/23/2022	0-6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	530
SW-2	5/26/2022	0-6	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<10	<50	<50	310
SW-3	6/9/2022	8-20.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	40	<48	40	12,000
SW-4	6/9/2022	8-14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<50	<50	9,600
SW-5	6/9/2022	8-20.5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<46	<46	4,200
SW-6	6/9/2022	14-20.5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<15	<50	<50	8,600
SW-7	6/9/2022	8-20.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<50	<50	14,000
SW-8	6/9/2022	6-14	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	17	<44	17	8,700
SW-9	6/9/2022	6-14	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<46	6,500
SW-10	6/9/2022	8-20.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	4,900
SW-11	6/9/2022	8-14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<13	<45	<45	4,400
SW-12	6/9/2022	8-14	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<49	14,000
SW-13	6/9/2022	8-14	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<49	<49	7,000
SW-14	6/9/2022	6-14	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	62	45	107	3,900

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

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/M RO	
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
10	---	---	---	50	---	---	---	100	600			
SW-14A	6/30/2022	6-14	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<48	8,900
SW-15	6/9/2022	6-8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	19	<46	19	1,800
SW-16	6/9/2022	6-8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<13	<45	<45	1,900
SW-17	6/14/2022	0-6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	120
SW-26	6/15/2022	0-6	<0.024	<0.049	<0.049	0.10	0.10	<4.9	<15	<50	<50	99
SW-27	6/15/2022	0-6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<48	<48	<60
SW-28	6/15/2022	0-6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	120
SW-29	6/15/2022	0-6	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<14	<47	<47	64
SW-30	6/15/2022	0-6	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<14	<47	<47	<60
SW-31	6/15/2022	0-6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<14	<47	<47	<60
SW-32	6/15/2022	0-6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<48	<48	<60
SW-33	6/15/2022	0-6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<48	<48	190
SW-34	6/15/2022	0-6	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<15	<50	<50	290
SW-35	6/15/2022	0-6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<49	<49	<60
SW-36	6/15/2022	0-6	<0.024	<0.048	0.054	0.25	0.304	<4.8	<13	<44	<44	200
SW-37	6/15/2022	0-6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<46	<46	120
SW-38	6/30/2022	0-6	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	21	<48	21	430

Notes:

- Values reported in mg/kg
- < = Value Less than Reporting Limit (RL)
- Bold Indicates Analyte Detected
- BTEX analyses by EPA Method SW 802
- TPH analyses by EPA Method SW 8015 Mod.
- GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
- Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
- 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).
- Liner installed over area as per the approved work plan.

B-BH-2 Sample Point Excavated

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

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride	
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC										
			10	---	---	---	50	1,000		---	2,500		20,000
Bottom Hole Composite Confirmation Samples													
BH-28	6/14/2022	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	92	110	202	280	
BH-29	6/14/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	210	200	410	1,100	
BH-30	6/14/2022	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	37	96	133	720	
BH-31	6/14/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<50	1,100	
BH-32	6/14/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	83	89	172	490	
BH-33	6/14/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	140	200	340	1,700	
BH-34	6/14/2022	4	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	100	130	230	2,400	
BH-35	6/14/2022	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	43	<48	43	740	
BH-36	6/14/2022	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	100	140	240	450	
BH-37	6/14/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	69	110	179	2,200	
BH-38	6/14/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	160	180	340	1,800	
BH-39	6/14/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	36	60	96	2,300	
BH-40	6/14/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	82	100	182	1,100	
BH-41	6/14/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	79	120	199	2,000	
BH-42	6/14/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	160	190	350	2,400	
BH-43	6/14/2022	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	88	120	208	2,500	
BH-44	6/14/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	40	87	127	3,200	
BH-45	6/14/2022	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	56	110	166	3,200	
BH-46	6/14/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	62	82	144	3,200	
BH-47	6/14/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	210	
BH-48	6/14/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<5.0	110	150	260	3,100	
BH-49	6/14/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	64	100	164	3,000	
BH-50	6/14/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	78	100	178	2,300	
BH-51	6/14/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	36	64	100	1,700	
BH-52	6/14/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	24	51	75	1,400	
BH-53	6/14/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<50	8,700	
BH-54	6/14/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	1,500	
BH-55	6/14/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	3,800	
BH-56	6/14/2022	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<49	<49	3,300	

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

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	
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
10	---	---	---	50	1,000	---	2,500	20,000				
BH-57	6/14/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	68	130	198	1,100
BH-58	6/15/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<50	<50	1,900
BH-59	6/15/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<49	<49	1,600
BH-60	6/15/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<50	2,000
BH-61	6/15/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<50	4,300
BH-62	6/15/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<49	<49	130
BH-63	6/15/2022	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	110	160	270	2,700
BH-64	6/15/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	45	82	127	2,500
BH-65	6/15/2022	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	98	110	208	2,800
BH-66	6/15/2022	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	54	78	132	1,800
BH-67	6/15/2022	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	140	170	310	3,200
BH-68	6/15/2022	4	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	48	93	141	2,000
BH-69	6/15/2022	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	69	120	189	2,300
BH-70	6/15/2022	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	66	100	166	2,400
BH-71	6/15/2022	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	69	110	179	2,700
BH-72	6/15/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	62	100	162	2,700
BH-73	6/15/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	69	110	179	2,600
BH-140	6/30/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<50	<50	250
BH-143	6/30/2022	6	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<14	<48	<48	980
BH-146	6/30/2022	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<15	<49	<49	1,500
BH-147	6/30/2022	6	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<15	<49	<49	550
BH-148	6/30/2022	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<50	<50	5,300
BH-149	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	2,000
BH-150	6/30/2022	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<48	<48	11,000
BH-151	6/30/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<49	<49	4,400
BH-152	6/30/2022	6	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<15	<50	<50	6,600

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

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		
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC										
			10	---	---	---	50	1,000		---	2,500		20,000
Sidewall Composite Confirmation Samples													
SW-18	6/14/2022	4-6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	120	190	310	270	
SW-19	6/14/2022	0-4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<49	<49	<60	
SW-20	6/14/2022	0-4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<14	<47	<47	77	
SW-21	6/14/2022	4-6	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	37	80	117	190	
SW-22	6/14/2022	0-4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<13	<45	<45	<60	
SW-23	6/14/2022	0-4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<50	<50	210	
SW-24	6/14/2022	4-6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	43	110	153	1,900	
SW-25	6/14/2022	4-6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	90	160	250	890	
SW-39	6/30/2022	4-6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<47	<47	1,700	

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. Liner installed over area as per the approved work plan.

B-BH-2 Sample Point Excavated

Attachment A

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: www.hallenvironmental.com

May 25, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2205794

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/18/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2205794

Date Reported: 5/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-1

Project: Hornbaker BA Battery

Collection Date: 5/16/2022 1:15:00 PM

Lab ID: 2205794-001

Matrix: SOIL

Received Date: 5/18/2022 8:27:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3700	150		mg/Kg	50	5/20/2022 10:38:09 AM	67579
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/20/2022 2:33:50 PM	67547
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/20/2022 2:33:50 PM	67547
Surr: DNOP	85.2	51.1-141		%Rec	1	5/20/2022 2:33:50 PM	67547
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/19/2022 7:10:54 PM	67544
Surr: BFB	97.9	37.7-212		%Rec	1	5/19/2022 7:10:54 PM	67544
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/19/2022 7:10:54 PM	67544
Toluene	ND	0.049		mg/Kg	1	5/19/2022 7:10:54 PM	67544
Ethylbenzene	ND	0.049		mg/Kg	1	5/19/2022 7:10:54 PM	67544
Xylenes, Total	ND	0.099		mg/Kg	1	5/19/2022 7:10:54 PM	67544
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	5/19/2022 7:10:54 PM	67544

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2205794

25-May-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67579	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67579	RunNo: 88138								
Prep Date: 5/19/2022	Analysis Date: 5/19/2022	SeqNo: 3125317 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67579	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67579	RunNo: 88138								
Prep Date: 5/19/2022	Analysis Date: 5/19/2022	SeqNo: 3125318 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

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

Page 2 of 6

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

WO#: 2205794

25-May-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-67589	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67589		RunNo: 88170							
Prep Date: 5/20/2022	Analysis Date: 5/20/2022		SeqNo: 3126837		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.7	51.1	141			

Sample ID: MB-67589	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67589		RunNo: 88170							
Prep Date: 5/20/2022	Analysis Date: 5/20/2022		SeqNo: 3126838		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.1	51.1	141			

Sample ID: LCS-67548	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67548		RunNo: 88170							
Prep Date: 5/19/2022	Analysis Date: 5/20/2022		SeqNo: 3126893		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	51.1	141			

Sample ID: LCS-67573	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67573		RunNo: 88170							
Prep Date: 5/19/2022	Analysis Date: 5/20/2022		SeqNo: 3126894		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.9	51.1	141			

Sample ID: LCS-67574	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67574		RunNo: 88170							
Prep Date: 5/19/2022	Analysis Date: 5/20/2022		SeqNo: 3126895		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.5	51.1	141			

Sample ID: MB-67548	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67548		RunNo: 88170							
Prep Date: 5/19/2022	Analysis Date: 5/20/2022		SeqNo: 3126897		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		112	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2205794

25-May-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67573	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67573		RunNo: 88170							
Prep Date: 5/19/2022	Analysis Date: 5/20/2022		SeqNo: 3126898		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.6	51.1	141			

Sample ID: MB-67574	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67574		RunNo: 88170							
Prep Date: 5/19/2022	Analysis Date: 5/20/2022		SeqNo: 3126899		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	51.1	141			

Sample ID: LCS-67547	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67547		RunNo: 88170							
Prep Date: 5/18/2022	Analysis Date: 5/20/2022		SeqNo: 3126924		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	91.7	64.4	127			
Surr: DNOP	4.4		5.000		87.3	51.1	141			

Sample ID: MB-67547	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67547		RunNo: 88170							
Prep Date: 5/18/2022	Analysis Date: 5/20/2022		SeqNo: 3126925		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		113	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2205794

25-May-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-67544	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67544	RunNo: 88115								
Prep Date: 5/18/2022	Analysis Date: 5/19/2022	SeqNo: 3124661 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	960		1000		96.3	37.7	212			

Sample ID: lcs-67544	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67544	RunNo: 88115								
Prep Date: 5/18/2022	Analysis Date: 5/19/2022	SeqNo: 3124662 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	2200		1000		223	37.7	212			S

Sample ID: mb-67550	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67550	RunNo: 88115								
Prep Date: 5/18/2022	Analysis Date: 5/20/2022	SeqNo: 3124685 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.4	37.7	212			

Sample ID: lcs-67550	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67550	RunNo: 88115								
Prep Date: 5/18/2022	Analysis Date: 5/19/2022	SeqNo: 3124686 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		212	37.7	212			S

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#: 2205794

25-May-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-67544	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67544		RunNo: 88115							
Prep Date: 5/18/2022	Analysis Date: 5/19/2022		SeqNo: 3124723		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		97.0	70	130			

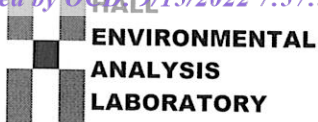
Sample ID: LCS-67544	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67544		RunNo: 88115							
Prep Date: 5/18/2022	Analysis Date: 5/19/2022		SeqNo: 3124728		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	80	120			
Toluene	0.97	0.050	1.000	0	97.0	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: mb-67550	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67550		RunNo: 88115							
Prep Date: 5/18/2022	Analysis Date: 5/20/2022		SeqNo: 3124799		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: LCS-67550	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67550		RunNo: 88115							
Prep Date: 5/18/2022	Analysis Date: 5/20/2022		SeqNo: 3124807		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			

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		



Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2205794

RcptNo: 1

Received By: Joseph Alderette 5/17/2022 8:27:00 AM

Completed By: Desiree Dominguez 5/18/2022 9:00:05 AM

Reviewed By: KPA 5.18.22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: jn 5/18/22

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	5.5	Good				

Chain-of-Custody Record

Client: GHDMailing Address: 2135 S. Loop 250 W.Midland, TX 79703Phone #: 432-686-0086email or Fax#: Tom.Larson@GHD.Com

QA/QC Package:

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

Project Manager:

Becky Hasler @ GHD.ComSampler: Heath Boyd @ GHD.ComOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 55 - 0 = 55 (°C)

Container Type and #

4oz Jar / 1

Preservative Type

n/a

HEAL No.

2205794

-001

Sample Name

BH-1

Date

5/16

Time

1315

Matrix

S

Date:

5/16

Time:

1730

Relinquished by:

[Signature]

Date:

5/17/22

Time:

1900

Relinquished by:

[Signature]

Received by:

[Signature]

Via:

curier

Date

5/17/22

Time

1730

Date

5-18-22

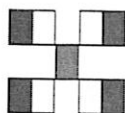
Time

8:27

Remarks: Please Email: "Tom, Becky, Heath,"

lach.comino @ GHD.ComAmber-Griffin@EDGResources.comChase-Suttle@EDGResources.comDirect Bill: EOG Attn Chase

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

BTEX / MTBE / TMB's (8021)	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 ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	X (chloride m 300)



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

June 01, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2205879

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/19/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2205879

Date Reported: 6/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-2

Project: Hornbaker BA Battery

Collection Date: 5/17/2022 1:00:00 PM

Lab ID: 2205879-001

Matrix: SOIL

Received Date: 5/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3500	150		mg/Kg	50	5/25/2022 10:32:55 AM	67663
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/24/2022 1:38:53 AM	67593
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/24/2022 1:38:53 AM	67593
Surr: DNOP	89.6	51.1-141		%Rec	1	5/24/2022 1:38:53 AM	67593
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/23/2022 5:45:41 PM	67591
Surr: BFB	95.5	37.7-212		%Rec	1	5/23/2022 5:45:41 PM	67591
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/23/2022 5:45:41 PM	67591
Toluene	ND	0.047		mg/Kg	1	5/23/2022 5:45:41 PM	67591
Ethylbenzene	ND	0.047		mg/Kg	1	5/23/2022 5:45:41 PM	67591
Xylenes, Total	ND	0.094		mg/Kg	1	5/23/2022 5:45:41 PM	67591
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	5/23/2022 5:45:41 PM	67591

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2205879
01-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67663	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 67663	RunNo: 88242
Prep Date: 5/24/2022	Analysis Date: 5/24/2022	SeqNo: 3129332 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-67663	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 67663	RunNo: 88242
Prep Date: 5/24/2022	Analysis Date: 5/24/2022	SeqNo: 3129333 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.6 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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#: 2205879

01-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-67593	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67593		RunNo: 88200							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3127566		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	64.4	127			
Surr: DNOP	6.6		5.000		132	51.1	141			

Sample ID: MB-67593	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67593		RunNo: 88200							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3127569		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		111	51.1	141			

Sample ID: MB-67666	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67666		RunNo: 88263							
Prep Date: 5/24/2022	Analysis Date: 5/26/2022		SeqNo: 3131422		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	51.1	141			

Sample ID: LCS-67666	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67666		RunNo: 88263							
Prep Date: 5/24/2022	Analysis Date: 5/26/2022		SeqNo: 3131423		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		108	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2205879

01-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-67591	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67591	RunNo: 88206								
Prep Date: 5/20/2022	Analysis Date: 5/23/2022	SeqNo: 3126931 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	910		1000		90.7	37.7	212			

Sample ID: lcs-67591	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67591	RunNo: 88206								
Prep Date: 5/20/2022	Analysis Date: 5/23/2022	SeqNo: 3126933 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2000		1000		201	37.7	212			

Sample ID: mb-67605	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67605	RunNo: 88206								
Prep Date: 5/20/2022	Analysis Date: 5/24/2022	SeqNo: 3126958 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		91.8	37.7	212			

Sample ID: lcs-67605	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67605	RunNo: 88206								
Prep Date: 5/20/2022	Analysis Date: 5/23/2022	SeqNo: 3126959 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		200	37.7	212			

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#: 2205879

01-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-67591	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67591		RunNo: 88206							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3126980		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	0.95		1.000		95.1	70	130			

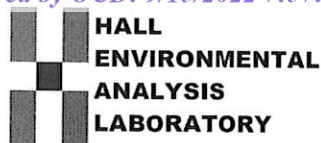
Sample ID: LCS-67591	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67591		RunNo: 88206							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3126981		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.2	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Sample ID: mb-67605	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67605		RunNo: 88206							
Prep Date: 5/20/2022	Analysis Date: 5/24/2022		SeqNo: 3127001		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	70	130			

Sample ID: LCS-67605	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67605		RunNo: 88206							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3127002		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			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2205879

RcptNo: 1

Received By: Cheyenne Cason 5/19/2022 7:45:00 AM

Completed By: Sean Livingston 5/19/2022 8:48:39 AM

Reviewed By: *Justin 5/19/22*

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? 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: *KPL 5.19.22*Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good				

Chain-of-Custody Record

Client:

GHD

Mailing Address: 2135 S. 100th 250 W.

Midland, TX 79703

Phone #: 439-686-0086

email or Fax#: Tom. Larson @ 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:

Hornbaker BA Battery

Project #:

11228980

Project Manager:

Becky Hostell @ GHD.com

Sampler: Heath, Boyd @ GHD.com

On Ice:

☒ Yes☐ No

of Coolers: 1

Cooler Temp (including CF): 3.4-0.1-3.3 (°C)

Container Type and #

Preservative Type

HEAL No.

402.5m/1

N/A

2205879

001

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

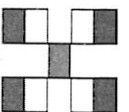
Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride M 300


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Received by OCB: 8/15/2022 7:57:57 PM

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/15/22	1700	[Signature]	[Signature]		8/18/22	0830
8/22/22	1900	[Signature]	[Signature]		8/19/22	0745

Remarks: Tom, Becky, Heath (Please Email)
 Zach. Conino @ GHD.com
 Chase Smith @ EDSResources.com
 Amber Griffin @ EDSResources.com
 Direct Bill: EOG Athn. Chase

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



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

June 03, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2205A98

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/25/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2205A98

Date Reported: 6/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-1

Project: Hornbaker BA Battery

Collection Date: 5/23/2022 12:20:00 PM

Lab ID: 2205A98-001

Matrix: SOIL

Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	530	60		mg/Kg	20	6/1/2022 5:12:57 AM	67796
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/27/2022 11:24:09 PM	67736
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/27/2022 11:24:09 PM	67736
Surr: DNOP	114	51.1-141		%Rec	1	5/27/2022 11:24:09 PM	67736
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/28/2022 12:05:00 AM	67728
Surr: BFB	92.0	37.7-212		%Rec	1	5/28/2022 12:05:00 AM	67728
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	5/28/2022 12:05:00 AM	67728
Toluene	ND	0.050		mg/Kg	1	5/28/2022 12:05:00 AM	67728
Ethylbenzene	ND	0.050		mg/Kg	1	5/28/2022 12:05:00 AM	67728
Xylenes, Total	ND	0.099		mg/Kg	1	5/28/2022 12:05:00 AM	67728
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	5/28/2022 12:05:00 AM	67728

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2205A9803-Jun-22

Client:GHD Midland

Project:Hornbaker BA Battery

Sample ID: MB-67796	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 67796	RunNo: 88375
Prep Date: 5/31/2022	Analysis Date: 5/31/2022	SeqNo: 3135693Units: mg/Kg
Analyte	Result	PQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual
Chloride	ND	1.5

Sample ID: LCS-67796	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 67796	RunNo: 88375
Prep Date: 5/31/2022	Analysis Date: 6/1/2022	SeqNo: 3135694Units: mg/Kg
Analyte	Result	PQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual
Chloride	14	1.515.00093.890110

Qualifiers:

*Value exceeds Maximum Contaminant Level.

DSample Diluted Due to Matrix

HHolding times for preparation or analysis exceeded

NDNot Detected at the Reporting Limit

PQLPractical Quantitative Limit

S% Recovery outside of range due to dilution or matrix interference

BAnalyte detected in the associated Method Blank

EEstimated value

JAnalyte detected below quantitation limits

PSample pH Not In Range

RLReporting Limit

Page 2 of 5

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

WO#: 2205A98

03-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67680	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67680		RunNo: 88246							
Prep Date: 5/25/2022	Analysis Date: 5/26/2022		SeqNo: 3132682		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.1	51.1	141			

Sample ID: LCS-67680	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67680		RunNo: 88246							
Prep Date: 5/25/2022	Analysis Date: 5/26/2022		SeqNo: 3132685		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

Sample ID: MB-67736	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67736		RunNo: 88246							
Prep Date: 5/26/2022	Analysis Date: 5/27/2022		SeqNo: 3133612		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	51.1	141			

Sample ID: LCS-67736	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67736		RunNo: 88246							
Prep Date: 5/26/2022	Analysis Date: 5/27/2022		SeqNo: 3133613		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	102	64.4	127			
Surr: DNOP	4.7		5.000		93.7	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2205A98

03-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-67728	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67728	RunNo: 88349								
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3133510	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	72.3	137			
Surr: BFB	1800		1000		184	37.7	212			

Sample ID: mb-67728	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67728	RunNo: 88349								
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3133511	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	880		1000		87.5	37.7	212			

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#: 2205A98

03-Jun-22

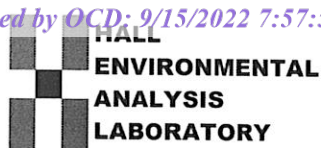
Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: ics-67728	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 67728	RunNo: 88349								
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3133559	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	93.2	80	120			
Toluene	0.94	0.050	1.000	0	94.5	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.2	70	130			

Sample ID: mb-67728	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 67728	RunNo: 88349								
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3133560	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	0.89		1.000		88.7	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2205A98

RcptNo: 1

Received By: Juan Rojas 5/25/2022 7:15:00 AM

Completed By: Cheyenne Cason 5/25/2022 9:07:29 AM

Reviewed By: *[Signature]* 5-25-22 *5/25/22*Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? 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? *[Signature]*

Checked by: *[Signature]* 5-25-22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

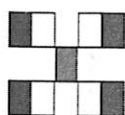
16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: GHD		Turn-Around Time:	
<input checked="" type="checkbox"/> Standard		<input checked="" type="checkbox"/> Rush 5 Day	
Project Name:		Hombaker BA Battery	
Project #:		11220780	
Project Manager:		Becky, Haskew @ GHD.com	
Sampler: Heath, Boyd @ GHD.com		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
# of Coolers: 1		Cooler Temp (including CFI): 34-0-34 (°C)	
Container Type and #		Preservative Type	HEAL No.
5/23	1220 S	12/1	2205A98
Sample Name		412. Jar / 1	
Date		5/23	
Time		1220	
Matrix		S	
Relinquished by:		Relinquished by:	
Date: 5/23	Time: 1600	Date: 5/25/22	Time: 7:15
Date: 5/23	Time: 1900	Date: 5/25/22	Time: 7:15



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 / TMB's (8021)	X
TPH: 8015D (GRO / DRO / MRO)	X
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	X
Chloride	

Remarks: Please Email: Tom, Becky, Heather
 zach.comino @ GHD.com
 Amber-Grieffin @ eogresources.com
 Chase, Gutt @ eog
 Bill direct to: EOG 44th. Chase



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

June 06, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2205B79

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/26/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2205B79

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-3

Project: Hornbaker BA Battery

Collection Date: 5/25/2022 12:45:00 PM

Lab ID: 2205B79-001

Matrix: SOIL

Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	61		mg/Kg	20	6/2/2022 1:03:29 AM	67841
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/31/2022 3:26:27 PM	67767
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/31/2022 3:26:27 PM	67767
Surr: DNOP	85.2	51.1-141		%Rec	1	5/31/2022 3:26:27 PM	67767
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/29/2022 2:22:00 AM	67752
Surr: BFB	91.2	37.7-212		%Rec	1	5/29/2022 2:22:00 AM	67752
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/29/2022 2:22:00 AM	67752
Toluene	ND	0.049		mg/Kg	1	5/29/2022 2:22:00 AM	67752
Ethylbenzene	ND	0.049		mg/Kg	1	5/29/2022 2:22:00 AM	67752
Xylenes, Total	ND	0.097		mg/Kg	1	5/29/2022 2:22:00 AM	67752
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	5/29/2022 2:22:00 AM	67752

Refer to the QC Summary report and sample login checklist for flagged QC data 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 6

Analytical Report

Lab Order 2205B79

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-4

Project: Hornbaker BA Battery

Collection Date: 5/25/2022 12:50:00 PM

Lab ID: 2205B79-002

Matrix: SOIL

Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	740	60		mg/Kg	20	6/2/2022 1:40:31 AM	67841
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/31/2022 3:37:11 PM	67767
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/31/2022 3:37:11 PM	67767
Surr: DNOP	88.6	51.1-141		%Rec	1	5/31/2022 3:37:11 PM	67767
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/29/2022 2:42:00 AM	67752
Surr: BFB	91.7	37.7-212		%Rec	1	5/29/2022 2:42:00 AM	67752
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	5/29/2022 2:42:00 AM	67752
Toluene	ND	0.047		mg/Kg	1	5/29/2022 2:42:00 AM	67752
Ethylbenzene	ND	0.047		mg/Kg	1	5/29/2022 2:42:00 AM	67752
Xylenes, Total	ND	0.093		mg/Kg	1	5/29/2022 2:42:00 AM	67752
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	5/29/2022 2:42:00 AM	67752

Refer to the QC Summary report and sample login checklist for flagged QC data 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 2 of 6

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

WO#: 2205B79

06-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67841	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67841	RunNo: 88422								
Prep Date: 6/1/2022	Analysis Date: 6/1/2022	SeqNo: 3137026	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67841	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67841	RunNo: 88422								
Prep Date: 6/1/2022	Analysis Date: 6/1/2022	SeqNo: 3137027	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

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

Page 3 of 6

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

WO#: 2205B79

06-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67767	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67767	RunNo: 88367								
Prep Date: 5/27/2022	Analysis Date: 5/31/2022	SeqNo: 3134570	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		100	51.1	141			

Sample ID: LCS-67767	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67767	RunNo: 88367								
Prep Date: 5/27/2022	Analysis Date: 5/31/2022	SeqNo: 3134571	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	93.9	64.4	127			
Surr: DNOP	4.2		5.000		84.8	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2205B79

06-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: ics-67752	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 67752			RunNo: 88354						
Prep Date: 5/27/2022	Analysis Date: 5/28/2022			SeqNo: 3133718		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	94.6	72.3	137			
Surr: BFB	1900		1000		193	37.7	212			

Sample ID: mb-67752	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 67752			RunNo: 88354						
Prep Date: 5/27/2022	Analysis Date: 5/28/2022			SeqNo: 3133719		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	960		1000		95.9	37.7	212			

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#: 2205B79

06-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: ics-67752	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67752		RunNo: 88354							
Prep Date: 5/27/2022	Analysis Date: 5/28/2022		SeqNo: 3133757		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.1	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.5	70	130			

Sample ID: mb-67752	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67752		RunNo: 88354							
Prep Date: 5/27/2022	Analysis Date: 5/28/2022		SeqNo: 3133758		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	0.93		1.000		93.4	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 Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 6 of 6

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2205B79

RcptNo: 1

Received By: Tracy Casarrubias 5/26/2022 7:00:00 AM

Completed By: Tracy Casarrubias 5/26/2022 8:35:49 AM

Reviewed By: SGE 5/26/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: SGE 5-26-22Special 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	0.5	Good	Yes			
2	3.7	Good	Yes			
3	1.6	Good	Yes			
4	2.4	Good	Yes			



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

June 07, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2205C51

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/27/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2205C51

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-5

Project: Hornbaker BA Battery

Collection Date: 5/25/2022 12:00:00 PM

Lab ID: 2205C51-001

Matrix: SOIL

Received Date: 5/27/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	970	60		mg/Kg	20	6/2/2022 6:55:58 PM	67861
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/3/2022 2:26:05 AM	67801
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/3/2022 2:26:05 AM	67801
Surr: DNOP	91.7	51.1-141		%Rec	1	6/3/2022 2:26:05 AM	67801
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/30/2022 11:06:00 AM	67768
Surr: BFB	85.7	37.7-212		%Rec	1	5/30/2022 11:06:00 AM	67768
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	5/30/2022 11:06:00 AM	67768
Toluene	ND	0.048		mg/Kg	1	5/30/2022 11:06:00 AM	67768
Ethylbenzene	ND	0.048		mg/Kg	1	5/30/2022 11:06:00 AM	67768
Xylenes, Total	ND	0.095		mg/Kg	1	5/30/2022 11:06:00 AM	67768
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	5/30/2022 11:06:00 AM	67768

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2205C51

08-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67861	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67861	RunNo: 88448								
Prep Date: 6/2/2022	Analysis Date: 6/2/2022	SeqNo: 3137969	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67861	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67861	RunNo: 88448								
Prep Date: 6/2/2022	Analysis Date: 6/2/2022	SeqNo: 3137970	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

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

Page 2 of 5

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

WO#: 2205C51

08-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67801	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67801	RunNo: 88418								
Prep Date: 5/31/2022	Analysis Date: 6/1/2022	SeqNo: 3136937 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	6.7		10.00		67.1	51.1	141			

Sample ID: LCS-67801	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67801	RunNo: 88418								
Prep Date: 5/31/2022	Analysis Date: 6/2/2022	SeqNo: 3137868 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	64.4	127			
Surr: DNOP	4.8		5.000		95.3	51.1	141			

Sample ID: MB-67821	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67821	RunNo: 88418								
Prep Date: 6/1/2022	Analysis Date: 6/3/2022	SeqNo: 3138396 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.0	51.1	141			

Sample ID: LCS-67821	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67821	RunNo: 88418								
Prep Date: 6/1/2022	Analysis Date: 6/3/2022	SeqNo: 3138397 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		76.1	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2205C51

08-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-67768	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 67768		RunNo: 88358							
Prep Date: 5/27/2022	Analysis Date: 5/30/2022		SeqNo: 3134041		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	93.9	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

Sample ID: mb-67768	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 67768		RunNo: 88358							
Prep Date: 5/27/2022	Analysis Date: 5/30/2022		SeqNo: 3134042		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	870		1000		86.6	37.7	212			

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#: 2205C51

08-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: ics-67768	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67768		RunNo: 88358							
Prep Date: 5/27/2022	Analysis Date: 5/30/2022		SeqNo: 3134102		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.87	0.050	1.000	0	87.0	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.1	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: mb-67768	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67768		RunNo: 88358							
Prep Date: 5/27/2022	Analysis Date: 5/30/2022		SeqNo: 3134103		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

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		



Sample Log-In Check List

Client Name: GHD

Work Order Number: 2205C51

RcptNo: 1

Received By: Cheyenne Cason 5/27/2022 7:10:00 AM

Completed By: Sean Livingston 5/27/2022 8:08:02 AM

Reviewed By: *gn 5/27/22**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: *CMC 5/27/22*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	2.1	Good				

[illegible]

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.



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks: Please Email: Becky, Tom, Heath
Zach, Lemino@GTHD.COM
Amber-Griffin@FOGresources.com
Chase-Griffin@Cog"

Direct Bill to: EOG Attn: Chase



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

June 08, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2205D08

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/28/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2205D08

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-2

Project: Hornbaker BA Battery

Collection Date: 5/26/2022 1:00:00 PM

Lab ID: 2205D08-001

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	310	61		mg/Kg	20	6/2/2022 7:08:23 PM	67861
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/2/2022 6:18:54 PM	67802
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2022 6:18:54 PM	67802
Surr: DNOP	70.4	51.1-141		%Rec	1	6/2/2022 6:18:54 PM	67802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/31/2022 4:47:00 PM	67777
Surr: BFB	92.0	37.7-212		%Rec	1	5/31/2022 4:47:00 PM	67777
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	5/31/2022 4:47:00 PM	67777
Toluene	ND	0.047		mg/Kg	1	5/31/2022 4:47:00 PM	67777
Ethylbenzene	ND	0.047		mg/Kg	1	5/31/2022 4:47:00 PM	67777
Xylenes, Total	ND	0.095		mg/Kg	1	5/31/2022 4:47:00 PM	67777
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	5/31/2022 4:47:00 PM	67777

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

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

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

WO#: 2205D08

08-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67861	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67861	RunNo: 88448								
Prep Date: 6/2/2022	Analysis Date: 6/2/2022	SeqNo: 3137969	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67861	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67861	RunNo: 88448								
Prep Date: 6/2/2022	Analysis Date: 6/2/2022	SeqNo: 3137970	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

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

Page 2 of 5

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

WO#: 2205D08

08-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-67802	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67802	RunNo: 88418								
Prep Date: 5/31/2022	Analysis Date: 6/1/2022	SeqNo: 3136875 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	7.3		10.00		72.8	51.1	141			

Sample ID: LCS-67802	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67802	RunNo: 88418								
Prep Date: 5/31/2022	Analysis Date: 6/1/2022	SeqNo: 3136893 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	64.4	127			
Surr: DNOP	2.9		5.000		58.3	51.1	141			

Sample ID: MB-67871	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67871	RunNo: 88418								
Prep Date: 6/2/2022	Analysis Date: 6/4/2022	SeqNo: 3140066 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		96.6	51.1	141			

Sample ID: LCS-67871	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67871	RunNo: 88418								
Prep Date: 6/2/2022	Analysis Date: 6/4/2022	SeqNo: 3140074 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.0	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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#: 2205D08

08-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-67777	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 67777				RunNo: 88377					
Prep Date: 5/29/2022	Analysis Date: 5/31/2022				SeqNo: 3135016	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	93.8	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Sample ID: mb-67777	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 67777				RunNo: 88377					
Prep Date: 5/29/2022	Analysis Date: 5/31/2022				SeqNo: 3135017	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	870		1000		86.7	37.7	212			

Qualifiers:

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

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

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

WO#: 2205D08

08-Jun-22

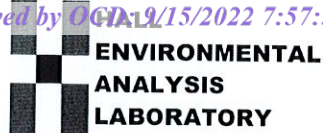
Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-67777	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 67777			RunNo: 88377						
Prep Date: 5/29/2022	Analysis Date: 5/31/2022			SeqNo: 3135071		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	80	120			
Toluene	0.94	0.050	1.000	0	94.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.6	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: mb-67777	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 67777			RunNo: 88377						
Prep Date: 5/29/2022	Analysis Date: 5/31/2022			SeqNo: 3135072		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	70	130			

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		



Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2205D08

RcptNo: 1

Received By: Cheyenne Cason 5/28/2022 8:00:00 AM

Completed By: Cheyenne Cason 5/28/2022 8:48:28 AM

Reviewed By: *MC* 05/28/2022*Chul**Chul*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: *MC Slater*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	4.1	Good	Not Present			



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

June 22, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2206708

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 36 sample(s) on 6/14/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-6

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:00:00 AM

Lab ID: 2206708-001

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	11000	590		mg/Kg	200	6/20/2022 1:23:55 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 8:25:54 AM	68146
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/17/2022 8:25:54 AM	68146
Surr: DNOP	94.6	51.1-141		%Rec	1	6/17/2022 8:25:54 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 5:01:18 AM	68104
Surr: BFB	95.1	37.7-212		%Rec	1	6/16/2022 5:01:18 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 5:01:18 AM	68104
Toluene	ND	0.050		mg/Kg	1	6/16/2022 5:01:18 AM	68104
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 5:01:18 AM	68104
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2022 5:01:18 AM	68104
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	6/16/2022 5:01:18 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-7

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:05:00 AM

Lab ID: 2206708-002

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4700	150		mg/Kg	50	6/20/2022 3:27:56 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 8:36:29 AM	68146
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2022 8:36:29 AM	68146
Surr: DNOP	105	51.1-141		%Rec	1	6/17/2022 8:36:29 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 5:24:41 AM	68104
Surr: BFB	92.6	37.7-212		%Rec	1	6/16/2022 5:24:41 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 5:24:41 AM	68104
Toluene	ND	0.049		mg/Kg	1	6/16/2022 5:24:41 AM	68104
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 5:24:41 AM	68104
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 5:24:41 AM	68104
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	6/16/2022 5:24:41 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:10:00 AM

Lab ID: 2206708-003

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3400	150		mg/Kg	50	6/20/2022 3:40:21 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	24	14		mg/Kg	1	6/17/2022 8:47:05 AM	68146
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/17/2022 8:47:05 AM	68146
Surr: DNOP	88.4	51.1-141		%Rec	1	6/17/2022 8:47:05 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 5:48:00 AM	68104
Surr: BFB	91.8	37.7-212		%Rec	1	6/16/2022 5:48:00 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 5:48:00 AM	68104
Toluene	ND	0.050		mg/Kg	1	6/16/2022 5:48:00 AM	68104
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 5:48:00 AM	68104
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2022 5:48:00 AM	68104
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	6/16/2022 5:48:00 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-9

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:15:00 AM

Lab ID: 2206708-004

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4700	300		mg/Kg	100	6/20/2022 6:21:37 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 8:57:41 AM	68146
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2022 8:57:41 AM	68146
Surr: DNOP	115	51.1-141		%Rec	1	6/17/2022 8:57:41 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 6:11:21 AM	68104
Surr: BFB	98.5	37.7-212		%Rec	1	6/16/2022 6:11:21 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 6:11:21 AM	68104
Toluene	ND	0.050		mg/Kg	1	6/16/2022 6:11:21 AM	68104
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 6:11:21 AM	68104
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2022 6:11:21 AM	68104
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	6/16/2022 6:11:21 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-10

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:20:00 AM

Lab ID: 2206708-005

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	150		mg/Kg	50	6/20/2022 3:52:45 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 9:08:17 AM	68146
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2022 9:08:17 AM	68146
Surr: DNOP	97.7	51.1-141		%Rec	1	6/17/2022 9:08:17 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 4:41:00 AM	68104
Surr: BFB	86.5	37.7-212		%Rec	1	6/16/2022 4:41:00 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 4:41:00 AM	68104
Toluene	ND	0.049		mg/Kg	1	6/16/2022 4:41:00 AM	68104
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 4:41:00 AM	68104
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2022 4:41:00 AM	68104
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	6/16/2022 4:41:00 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-11

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:25:00 AM

Lab ID: 2206708-006

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8800	300		mg/Kg	100	6/20/2022 6:34:02 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 9:19:09 AM	68146
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/17/2022 9:19:09 AM	68146
Surr: DNOP	102	51.1-141		%Rec	1	6/17/2022 9:19:09 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 5:01:00 AM	68104
Surr: BFB	87.1	37.7-212		%Rec	1	6/16/2022 5:01:00 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 5:01:00 AM	68104
Toluene	ND	0.049		mg/Kg	1	6/16/2022 5:01:00 AM	68104
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 5:01:00 AM	68104
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 5:01:00 AM	68104
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	6/16/2022 5:01:00 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-12

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:30:00 AM

Lab ID: 2206708-007

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9400	600		mg/Kg	200	6/20/2022 1:36:19 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 9:30:00 AM	68146
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2022 9:30:00 AM	68146
Surr: DNOP	88.0	51.1-141		%Rec	1	6/17/2022 9:30:00 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 5:20:00 AM	68104
Surr: BFB	88.1	37.7-212		%Rec	1	6/16/2022 5:20:00 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 5:20:00 AM	68104
Toluene	ND	0.049		mg/Kg	1	6/16/2022 5:20:00 AM	68104
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 5:20:00 AM	68104
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 5:20:00 AM	68104
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	6/16/2022 5:20:00 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-13

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:35:00 AM

Lab ID: 2206708-008

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8400	610		mg/Kg	200	6/20/2022 1:48:42 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 9:40:51 AM	68146
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2022 9:40:51 AM	68146
Surr: DNOP	71.7	51.1-141		%Rec	1	6/17/2022 9:40:51 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 5:40:00 AM	68104
Surr: BFB	86.9	37.7-212		%Rec	1	6/16/2022 5:40:00 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 5:40:00 AM	68104
Toluene	ND	0.049		mg/Kg	1	6/16/2022 5:40:00 AM	68104
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 5:40:00 AM	68104
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2022 5:40:00 AM	68104
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	6/16/2022 5:40:00 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-14

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 8:40:00 AM

Lab ID: 2206708-009

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3600	150		mg/Kg	50	6/20/2022 4:05:09 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 9:51:40 AM	68146
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2022 9:51:40 AM	68146
Surr: DNOP	70.9	51.1-141		%Rec	1	6/17/2022 9:51:40 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 6:00:00 AM	68104
Surr: BFB	85.4	37.7-212		%Rec	1	6/16/2022 6:00:00 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 6:00:00 AM	68104
Toluene	ND	0.049		mg/Kg	1	6/16/2022 6:00:00 AM	68104
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 6:00:00 AM	68104
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 6:00:00 AM	68104
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	6/16/2022 6:00:00 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-3

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 9:00:00 AM

Lab ID: 2206708-010

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	12000	600		mg/Kg	200	6/20/2022 2:01:06 PM	68176
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	40	14		mg/Kg	1	6/17/2022 10:36:42 AM	68146
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2022 10:36:42 AM	68146
Surr: DNOP	52.9	51.1-141		%Rec	1	6/17/2022 10:36:42 AM	68146
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 6:19:00 AM	68104
Surr: BFB	82.0	37.7-212		%Rec	1	6/16/2022 6:19:00 AM	68104
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 6:19:00 AM	68104
Toluene	ND	0.050		mg/Kg	1	6/16/2022 6:19:00 AM	68104
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 6:19:00 AM	68104
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2022 6:19:00 AM	68104
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	6/16/2022 6:19:00 AM	68104

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-4

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 9:05:00 AM

Lab ID: 2206708-011

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9600	590		mg/Kg	200	6/20/2022 2:13:30 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 1:22:46 AM	68138
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2022 1:22:46 AM	68138
Surr: DNOP	115	51.1-141		%Rec	1	6/17/2022 1:22:46 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 7:48:00 PM	68108
Surr: BFB	88.0	37.7-212		%Rec	1	6/15/2022 7:48:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/15/2022 7:48:00 PM	68108
Toluene	ND	0.050		mg/Kg	1	6/15/2022 7:48:00 PM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 7:48:00 PM	68108
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 7:48:00 PM	68108
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	6/15/2022 7:48:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-5

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 9:10:00 AM

Lab ID: 2206708-012

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4200	150		mg/Kg	50	6/20/2022 4:17:33 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 1:55:30 AM	68138
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/17/2022 1:55:30 AM	68138
Surr: DNOP	101	51.1-141		%Rec	1	6/17/2022 1:55:30 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 8:48:00 PM	68108
Surr: BFB	87.4	37.7-212		%Rec	1	6/15/2022 8:48:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/15/2022 8:48:00 PM	68108
Toluene	ND	0.049		mg/Kg	1	6/15/2022 8:48:00 PM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 8:48:00 PM	68108
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 8:48:00 PM	68108
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	6/15/2022 8:48:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-6

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 9:15:00 AM

Lab ID: 2206708-013

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8600	600		mg/Kg	200	6/20/2022 2:25:54 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 2:06:28 AM	68138
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2022 2:06:28 AM	68138
Surr: DNOP	103	51.1-141		%Rec	1	6/17/2022 2:06:28 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 9:48:00 PM	68108
Surr: BFB	83.9	37.7-212		%Rec	1	6/15/2022 9:48:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/15/2022 9:48:00 PM	68108
Toluene	ND	0.049		mg/Kg	1	6/15/2022 9:48:00 PM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 9:48:00 PM	68108
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 9:48:00 PM	68108
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/15/2022 9:48:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-7

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 9:20:00 AM

Lab ID: 2206708-014

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	14000	610		mg/Kg	200	6/20/2022 3:03:08 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 2:17:22 AM	68138
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2022 2:17:22 AM	68138
Surr: DNOP	101	51.1-141		%Rec	1	6/17/2022 2:17:22 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 10:08:00 PM	68108
Surr: BFB	85.3	37.7-212		%Rec	1	6/15/2022 10:08:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/15/2022 10:08:00 PM	68108
Toluene	ND	0.050		mg/Kg	1	6/15/2022 10:08:00 PM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 10:08:00 PM	68108
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 10:08:00 PM	68108
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	6/15/2022 10:08:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-15

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:00:00 AM

Lab ID: 2206708-015

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	60		mg/Kg	20	6/16/2022 2:34:34 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 2:28:19 AM	68138
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2022 2:28:19 AM	68138
Surr: DNOP	77.4	51.1-141		%Rec	1	6/17/2022 2:28:19 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 10:27:00 PM	68108
Surr: BFB	84.9	37.7-212		%Rec	1	6/15/2022 10:27:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/15/2022 10:27:00 PM	68108
Toluene	ND	0.049		mg/Kg	1	6/15/2022 10:27:00 PM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 10:27:00 PM	68108
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 10:27:00 PM	68108
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	6/15/2022 10:27:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-16

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:05:00 AM

Lab ID: 2206708-016

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3800	150		mg/Kg	50	6/20/2022 4:29:58 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	15	13		mg/Kg	1	6/17/2022 2:39:18 AM	68138
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/17/2022 2:39:18 AM	68138
Surr: DNOP	106	51.1-141		%Rec	1	6/17/2022 2:39:18 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 10:47:00 PM	68108
Surr: BFB	82.2	37.7-212		%Rec	1	6/15/2022 10:47:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/15/2022 10:47:00 PM	68108
Toluene	ND	0.049		mg/Kg	1	6/15/2022 10:47:00 PM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 10:47:00 PM	68108
Xylenes, Total	ND	0.097		mg/Kg	1	6/15/2022 10:47:00 PM	68108
Surr: 4-Bromofluorobenzene	80.9	70-130		%Rec	1	6/15/2022 10:47:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-17

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:10:00 AM

Lab ID: 2206708-017

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3000	150		mg/Kg	50	6/20/2022 4:42:22 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 2:50:14 AM	68138
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/17/2022 2:50:14 AM	68138
Surr: DNOP	99.2	51.1-141		%Rec	1	6/17/2022 2:50:14 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 11:07:00 PM	68108
Surr: BFB	80.1	37.7-212		%Rec	1	6/15/2022 11:07:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/15/2022 11:07:00 PM	68108
Toluene	ND	0.049		mg/Kg	1	6/15/2022 11:07:00 PM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 11:07:00 PM	68108
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2022 11:07:00 PM	68108
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	6/15/2022 11:07:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-18

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:15:00 AM

Lab ID: 2206708-018

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9800	600		mg/Kg	200	6/20/2022 3:15:32 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 3:01:13 AM	68138
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2022 3:01:13 AM	68138
Surr: DNOP	105	51.1-141		%Rec	1	6/17/2022 3:01:13 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 11:26:00 PM	68108
Surr: BFB	84.1	37.7-212		%Rec	1	6/15/2022 11:26:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/15/2022 11:26:00 PM	68108
Toluene	ND	0.050		mg/Kg	1	6/15/2022 11:26:00 PM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 11:26:00 PM	68108
Xylenes, Total	ND	0.10		mg/Kg	1	6/15/2022 11:26:00 PM	68108
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	6/15/2022 11:26:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-19

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:20:00 AM

Lab ID: 2206708-019

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9300	300		mg/Kg	100	6/20/2022 6:46:26 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 3:12:13 AM	68138
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/17/2022 3:12:13 AM	68138
Surr: DNOP	85.1	51.1-141		%Rec	1	6/17/2022 3:12:13 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 11:46:00 PM	68108
Surr: BFB	83.2	37.7-212		%Rec	1	6/15/2022 11:46:00 PM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/15/2022 11:46:00 PM	68108
Toluene	ND	0.049		mg/Kg	1	6/15/2022 11:46:00 PM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 11:46:00 PM	68108
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 11:46:00 PM	68108
Surr: 4-Bromofluorobenzene	82.1	70-130		%Rec	1	6/15/2022 11:46:00 PM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-20

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:25:00 AM

Lab ID: 2206708-020

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2200	150		mg/Kg	50	6/20/2022 4:54:46 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	82	13		mg/Kg	1	6/17/2022 3:23:17 AM	68138
Motor Oil Range Organics (MRO)	88	43		mg/Kg	1	6/17/2022 3:23:17 AM	68138
Surr: DNOP	103	51.1-141		%Rec	1	6/17/2022 3:23:17 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 12:06:00 AM	68108
Surr: BFB	84.5	37.7-212		%Rec	1	6/16/2022 12:06:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 12:06:00 AM	68108
Toluene	ND	0.050		mg/Kg	1	6/16/2022 12:06:00 AM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 12:06:00 AM	68108
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2022 12:06:00 AM	68108
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/16/2022 12:06:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-21

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:30:00 AM

Lab ID: 2206708-021

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3200	150		mg/Kg	50	6/20/2022 5:32:00 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	40	15		mg/Kg	1	6/17/2022 3:45:07 AM	68138
Motor Oil Range Organics (MRO)	65	49		mg/Kg	1	6/17/2022 3:45:07 AM	68138
Surr: DNOP	127	51.1-141		%Rec	1	6/17/2022 3:45:07 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 12:45:00 AM	68108
Surr: BFB	83.8	37.7-212		%Rec	1	6/16/2022 12:45:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 12:45:00 AM	68108
Toluene	ND	0.050		mg/Kg	1	6/16/2022 12:45:00 AM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 12:45:00 AM	68108
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2022 12:45:00 AM	68108
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	6/16/2022 12:45:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-22

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:35:00 AM

Lab ID: 2206708-022

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3000	150		mg/Kg	50	6/20/2022 5:44:24 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 4:06:54 AM	68138
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2022 4:06:54 AM	68138
Surr: DNOP	95.0	51.1-141		%Rec	1	6/17/2022 4:06:54 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/16/2022 1:05:00 AM	68108
Surr: BFB	82.1	37.7-212		%Rec	1	6/16/2022 1:05:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 1:05:00 AM	68108
Toluene	ND	0.048		mg/Kg	1	6/16/2022 1:05:00 AM	68108
Ethylbenzene	ND	0.048		mg/Kg	1	6/16/2022 1:05:00 AM	68108
Xylenes, Total	ND	0.096		mg/Kg	1	6/16/2022 1:05:00 AM	68108
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	6/16/2022 1:05:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-23

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:40:00 AM

Lab ID: 2206708-023

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7600	300		mg/Kg	100	6/20/2022 6:58:50 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/17/2022 4:18:00 AM	68138
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/17/2022 4:18:00 AM	68138
Surr: DNOP	97.2	51.1-141		%Rec	1	6/17/2022 4:18:00 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 1:24:00 AM	68108
Surr: BFB	85.4	37.7-212		%Rec	1	6/16/2022 1:24:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 1:24:00 AM	68108
Toluene	ND	0.050		mg/Kg	1	6/16/2022 1:24:00 AM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 1:24:00 AM	68108
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2022 1:24:00 AM	68108
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	6/16/2022 1:24:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-24

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 10:45:00 AM

Lab ID: 2206708-024

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7800	300		mg/Kg	100	6/20/2022 7:11:14 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 4:29:01 AM	68138
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/17/2022 4:29:01 AM	68138
Surr: DNOP	115	51.1-141		%Rec	1	6/17/2022 4:29:01 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/16/2022 1:44:00 AM	68108
Surr: BFB	88.2	37.7-212		%Rec	1	6/16/2022 1:44:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 1:44:00 AM	68108
Toluene	ND	0.048		mg/Kg	1	6/16/2022 1:44:00 AM	68108
Ethylbenzene	ND	0.048		mg/Kg	1	6/16/2022 1:44:00 AM	68108
Xylenes, Total	ND	0.097		mg/Kg	1	6/16/2022 1:44:00 AM	68108
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	6/16/2022 1:44:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-8

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 11:00:00 AM

Lab ID: 2206708-025

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8700	300		mg/Kg	100	6/20/2022 7:23:39 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	17	13		mg/Kg	1	6/17/2022 4:40:00 AM	68138
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/17/2022 4:40:00 AM	68138
Surr: DNOP	86.7	51.1-141		%Rec	1	6/17/2022 4:40:00 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 2:04:00 AM	68108
Surr: BFB	86.4	37.7-212		%Rec	1	6/16/2022 2:04:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 2:04:00 AM	68108
Toluene	ND	0.049		mg/Kg	1	6/16/2022 2:04:00 AM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 2:04:00 AM	68108
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 2:04:00 AM	68108
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	6/16/2022 2:04:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-9

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 11:05:00 AM

Lab ID: 2206708-026

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6500	300		mg/Kg	100	6/20/2022 8:00:53 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 4:50:57 AM	68138
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/17/2022 4:50:57 AM	68138
Surr: DNOP	107	51.1-141		%Rec	1	6/17/2022 4:50:57 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 2:23:00 AM	68108
Surr: BFB	90.1	37.7-212		%Rec	1	6/16/2022 2:23:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 2:23:00 AM	68108
Toluene	ND	0.050		mg/Kg	1	6/16/2022 2:23:00 AM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 2:23:00 AM	68108
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2022 2:23:00 AM	68108
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	6/16/2022 2:23:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-10

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 11:10:00 AM

Lab ID: 2206708-027

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4900	150		mg/Kg	50	6/20/2022 5:56:49 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 5:01:52 AM	68138
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/17/2022 5:01:52 AM	68138
Surr: DNOP	105	51.1-141		%Rec	1	6/17/2022 5:01:52 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 2:43:00 AM	68108
Surr: BFB	84.0	37.7-212		%Rec	1	6/16/2022 2:43:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 2:43:00 AM	68108
Toluene	ND	0.049		mg/Kg	1	6/16/2022 2:43:00 AM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 2:43:00 AM	68108
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 2:43:00 AM	68108
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	6/16/2022 2:43:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-11

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 11:15:00 AM

Lab ID: 2206708-028

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4400	150		mg/Kg	50	6/20/2022 6:09:13 PM	68162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/17/2022 5:12:45 AM	68138
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/17/2022 5:12:45 AM	68138
Surr: DNOP	104	51.1-141		%Rec	1	6/17/2022 5:12:45 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 3:03:00 AM	68108
Surr: BFB	88.2	37.7-212		%Rec	1	6/16/2022 3:03:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 3:03:00 AM	68108
Toluene	ND	0.050		mg/Kg	1	6/16/2022 3:03:00 AM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 3:03:00 AM	68108
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2022 3:03:00 AM	68108
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	6/16/2022 3:03:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-12

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 11:20:00 AM

Lab ID: 2206708-029

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	14000	600		mg/Kg	200	6/20/2022 8:13:17 PM	68200
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 5:23:38 AM	68138
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/17/2022 5:23:38 AM	68138
Surr: DNOP	130	51.1-141		%Rec	1	6/17/2022 5:23:38 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2022 3:22:00 AM	68108
Surr: BFB	87.8	37.7-212		%Rec	1	6/16/2022 3:22:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 3:22:00 AM	68108
Toluene	ND	0.050		mg/Kg	1	6/16/2022 3:22:00 AM	68108
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2022 3:22:00 AM	68108
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2022 3:22:00 AM	68108
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	6/16/2022 3:22:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-13

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 11:25:00 AM

Lab ID: 2206708-030

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	7000	300		mg/Kg	100	6/17/2022 1:40:15 PM	68200
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/17/2022 5:34:28 AM	68138
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/17/2022 5:34:28 AM	68138
Surr: DNOP	117	51.1-141		%Rec	1	6/17/2022 5:34:28 AM	68138
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 3:42:00 AM	68108
Surr: BFB	84.0	37.7-212		%Rec	1	6/16/2022 3:42:00 AM	68108
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 3:42:00 AM	68108
Toluene	ND	0.049		mg/Kg	1	6/16/2022 3:42:00 AM	68108
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 3:42:00 AM	68108
Xylenes, Total	ND	0.097		mg/Kg	1	6/16/2022 3:42:00 AM	68108
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	6/16/2022 3:42:00 AM	68108

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-25

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 12:00:00 PM

Lab ID: 2206708-031

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3500	300		mg/Kg	100	6/17/2022 1:52:39 PM	68200
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 4:53:21 PM	68148
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2022 4:53:21 PM	68148
Surr: DNOP	77.2	51.1-141		%Rec	1	6/17/2022 4:53:21 PM	68148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 2:04:20 PM	68110
Surr: BFB	97.8	37.7-212		%Rec	1	6/16/2022 2:04:20 PM	68110
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/16/2022 2:04:20 PM	68110
Toluene	ND	0.049		mg/Kg	1	6/16/2022 2:04:20 PM	68110
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 2:04:20 PM	68110
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 2:04:20 PM	68110
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	6/16/2022 2:04:20 PM	68110

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

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

Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-26

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 12:05:00 PM

Lab ID: 2206708-032

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2800	300		mg/Kg	100	6/17/2022 2:05:04 PM	68200
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 5:26:12 PM	68148
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2022 5:26:12 PM	68148
Surr: DNOP	73.6	51.1-141		%Rec	1	6/17/2022 5:26:12 PM	68148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 3:16:34 PM	68110
Surr: BFB	103	37.7-212		%Rec	1	6/16/2022 3:16:34 PM	68110
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 3:16:34 PM	68110
Toluene	ND	0.049		mg/Kg	1	6/16/2022 3:16:34 PM	68110
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 3:16:34 PM	68110
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 3:16:34 PM	68110
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	6/16/2022 3:16:34 PM	68110

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-27

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 12:10:00 PM

Lab ID: 2206708-033

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	4400	300		mg/Kg	100	6/17/2022 2:17:28 PM	68200
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/17/2022 5:37:04 PM	68148
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/17/2022 5:37:04 PM	68148
Surr: DNOP	65.8	51.1-141		%Rec	1	6/17/2022 5:37:04 PM	68148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/16/2022 4:29:10 PM	68110
Surr: BFB	102	37.7-212		%Rec	1	6/16/2022 4:29:10 PM	68110
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 4:29:10 PM	68110
Toluene	ND	0.048		mg/Kg	1	6/16/2022 4:29:10 PM	68110
Ethylbenzene	ND	0.048		mg/Kg	1	6/16/2022 4:29:10 PM	68110
Xylenes, Total	ND	0.096		mg/Kg	1	6/16/2022 4:29:10 PM	68110
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	6/16/2022 4:29:10 PM	68110

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-14

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 12:15:00 PM

Lab ID: 2206708-034

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3900	300		mg/Kg	100	6/17/2022 2:29:52 PM	68200
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	62	13		mg/Kg	1	6/17/2022 5:47:59 PM	68148
Motor Oil Range Organics (MRO)	45	43		mg/Kg	1	6/17/2022 5:47:59 PM	68148
Surr: DNOP	92.2	51.1-141		%Rec	1	6/17/2022 5:47:59 PM	68148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 4:53:30 PM	68110
Surr: BFB	100	37.7-212		%Rec	1	6/16/2022 4:53:30 PM	68110
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 4:53:30 PM	68110
Toluene	ND	0.049		mg/Kg	1	6/16/2022 4:53:30 PM	68110
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 4:53:30 PM	68110
Xylenes, Total	ND	0.097		mg/Kg	1	6/16/2022 4:53:30 PM	68110
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	6/16/2022 4:53:30 PM	68110

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

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

Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-15

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 12:20:00 PM

Lab ID: 2206708-035

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1800	300		mg/Kg	100	6/17/2022 3:07:05 PM	68200
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	19	14		mg/Kg	1	6/17/2022 5:58:55 PM	68148
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/17/2022 5:58:55 PM	68148
Surr: DNOP	92.2	51.1-141		%Rec	1	6/17/2022 5:58:55 PM	68148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2022 5:17:45 PM	68110
Surr: BFB	103	37.7-212		%Rec	1	6/16/2022 5:17:45 PM	68110
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 5:17:45 PM	68110
Toluene	ND	0.049		mg/Kg	1	6/16/2022 5:17:45 PM	68110
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2022 5:17:45 PM	68110
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2022 5:17:45 PM	68110
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	6/16/2022 5:17:45 PM	68110

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

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Analytical Report

Lab Order 2206708

Date Reported: 6/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-16

Project: Hornbaker BA Battery

Collection Date: 6/9/2022 12:25:00 PM

Lab ID: 2206708-036

Matrix: SOIL

Received Date: 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	300		mg/Kg	100	6/17/2022 3:19:29 PM	68200
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/17/2022 6:09:52 PM	68148
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/17/2022 6:09:52 PM	68148
Surr: DNOP	97.0	51.1-141		%Rec	1	6/17/2022 6:09:52 PM	68148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/16/2022 6:30:20 PM	68110
Surr: BFB	103	37.7-212		%Rec	1	6/16/2022 6:30:20 PM	68110
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/16/2022 6:30:20 PM	68110
Toluene	ND	0.048		mg/Kg	1	6/16/2022 6:30:20 PM	68110
Ethylbenzene	ND	0.048		mg/Kg	1	6/16/2022 6:30:20 PM	68110
Xylenes, Total	ND	0.096		mg/Kg	1	6/16/2022 6:30:20 PM	68110
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	6/16/2022 6:30:20 PM	68110

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

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

WO#: 2206708

22-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68162	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68162	RunNo: 88829								
Prep Date: 6/16/2022	Analysis Date: 6/16/2022	SeqNo: 3153783 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68162	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68162	RunNo: 88829								
Prep Date: 6/16/2022	Analysis Date: 6/16/2022	SeqNo: 3153784 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: MB-68176	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68176	RunNo: 88829								
Prep Date: 6/16/2022	Analysis Date: 6/16/2022	SeqNo: 3153815 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68176	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68176	RunNo: 88829								
Prep Date: 6/16/2022	Analysis Date: 6/16/2022	SeqNo: 3153816 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.8	90	110			

Sample ID: MB-68200	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68200	RunNo: 88864								
Prep Date: 6/17/2022	Analysis Date: 6/17/2022	SeqNo: 3155126 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68200	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68200	RunNo: 88864								
Prep Date: 6/17/2022	Analysis Date: 6/17/2022	SeqNo: 3155127 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Qualifiers:

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

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

WO#: 2206708

22-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2206708-011AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-4	Batch ID: 68138	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154183 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	13	43.98	0	131	36.1	154			
Surr: DNOP	4.9		4.398		112	51.1	141			

Sample ID: 2206708-011AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-4	Batch ID: 68138	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154184 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	15	50.20	0	125	36.1	154	8.71	33.9	
Surr: DNOP	5.2		5.020		104	51.1	141	0	0	

Sample ID: LCS-68138	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68138	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154204 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	15	50.00	0	114	64.4	127			
Surr: DNOP	5.9		5.000		119	51.1	141			

Sample ID: MB-68138	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68138	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154205 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.4	51.1	141			

Sample ID: LCS-68146	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68146	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154228 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	117	64.4	127			
Surr: DNOP	5.8		5.000		117	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2206708

22-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68146	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68146	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154229 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	51.1	141			

Sample ID: 2206708-031AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-25	Batch ID: 68148	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154569 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	14	47.89	13.56	98.3	36.1	154			
Surr: DNOP	4.0		4.789		84.4	51.1	141			

Sample ID: LCS-68148	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68148	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154576 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	102	64.4	127			
Surr: DNOP	4.5		5.000		89.5	51.1	141			

Sample ID: MB-68148	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68148	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3154577 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	51.1	141			

Sample ID: 2206708-031AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-25	Batch ID: 68148	RunNo: 88796								
Prep Date: 6/15/2022	Analysis Date: 6/17/2022	SeqNo: 3155101 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	14	45.79	13.56	84.7	36.1	154	14.7	33.9	
Surr: DNOP	3.8		4.579		81.9	51.1	141	0	0	

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#: 2206708

22-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: ics-68104	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68104			RunNo: 88769						
Prep Date: 6/14/2022	Analysis Date: 6/15/2022			SeqNo: 3151541		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	105	72.3	137			
Surr: BFB	2200		1000		217	37.7	212			S

Sample ID: mb-68104	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68104			RunNo: 88769						
Prep Date: 6/14/2022	Analysis Date: 6/15/2022			SeqNo: 3151543		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.1	37.7	212			

Sample ID: ics-68108	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68108			RunNo: 88750						
Prep Date: 6/14/2022	Analysis Date: 6/15/2022			SeqNo: 3151600		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.6	72.3	137			
Surr: BFB	1900		1000		187	37.7	212			

Sample ID: mb-68108	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68108			RunNo: 88750						
Prep Date: 6/14/2022	Analysis Date: 6/15/2022			SeqNo: 3151601		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	880		1000		88.1	37.7	212			

Sample ID: 2206708-011ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-4	Batch ID: 68108			RunNo: 88750						
Prep Date: 6/14/2022	Analysis Date: 6/15/2022			SeqNo: 3151603		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.58	0	93.1	70	130			
Surr: BFB	1900		983.3		193	37.7	212			

Sample ID: 2206708-011amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-4	Batch ID: 68108			RunNo: 88750						
Prep Date: 6/14/2022	Analysis Date: 6/15/2022			SeqNo: 3151604		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 2206708

22-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2206708-011amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SW-4	Batch ID: 68108	RunNo: 88750								
Prep Date: 6/14/2022	Analysis Date: 6/15/2022	SeqNo: 3151604 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.73	0	97.6	70	130	5.33	20	
Surr: BFB	2000		989.1		198	37.7	212	0	0	

Sample ID: 2206708-031ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-25	Batch ID: 68110	RunNo: 88814								
Prep Date: 6/14/2022	Analysis Date: 6/16/2022	SeqNo: 3153250 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	24.15	0	114	70	130			
Surr: BFB	2200		966.2		224	37.7	212			S

Sample ID: 2206708-031amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-25	Batch ID: 68110	RunNo: 88814								
Prep Date: 6/14/2022	Analysis Date: 6/16/2022	SeqNo: 3153251 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	23.99	0	107	70	130	7.06	20	
Surr: BFB	2100		959.7		218	37.7	212	0	0	S

Sample ID: lcs-68110	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68110	RunNo: 88814								
Prep Date: 6/14/2022	Analysis Date: 6/16/2022	SeqNo: 3153275 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	72.3	137			
Surr: BFB	2200		1000		217	37.7	212			S

Sample ID: mb-68110	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68110	RunNo: 88814								
Prep Date: 6/14/2022	Analysis Date: 6/16/2022	SeqNo: 3153276 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		99.2	37.7	212			

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#: 2206708

22-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-68104	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68104		RunNo: 88769							
Prep Date: 6/14/2022	Analysis Date: 6/15/2022		SeqNo: 3151578		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	84.1	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

Sample ID: mb-68104	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68104		RunNo: 88769							
Prep Date: 6/14/2022	Analysis Date: 6/15/2022		SeqNo: 3151580		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	0.93		1.000		92.6	70	130			

Sample ID: lcs-68108	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68108		RunNo: 88750							
Prep Date: 6/14/2022	Analysis Date: 6/15/2022		SeqNo: 3151631		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	85.2	80	120			
Toluene	0.87	0.050	1.000	0	86.7	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.7	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.8	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	70	130			

Sample ID: mb-68108	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68108		RunNo: 88750							
Prep Date: 6/14/2022	Analysis Date: 6/15/2022		SeqNo: 3151632		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		84.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2206708

22-Jun-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2206708-012ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-5	Batch ID: 68108	RunNo: 88750								
Prep Date: 6/14/2022	Analysis Date: 6/15/2022	SeqNo: 3151635 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9901	0	97.1	68.8	120			
Toluene	0.99	0.050	0.9901	0	100	73.6	124			
Ethylbenzene	0.99	0.050	0.9901	0	100	72.7	129			
Xylenes, Total	3.0	0.099	2.970	0	99.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9901		85.8	70	130			

Sample ID: 2206708-012amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-5	Batch ID: 68108	RunNo: 88750								
Prep Date: 6/14/2022	Analysis Date: 6/15/2022	SeqNo: 3151636 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.5	68.8	120	8.29	20	
Toluene	0.90	0.050	1.000	0	90.5	73.6	124	9.16	20	
Ethylbenzene	0.90	0.050	1.000	0	89.9	72.7	129	9.93	20	
Xylenes, Total	2.7	0.10	3.000	0	90.1	75.7	126	9.28	20	
Surr: 4-Bromofluorobenzene	0.84		1.000		84.1	70	130	0	0	

Sample ID: 2206708-032ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-26	Batch ID: 68110	RunNo: 88814								
Prep Date: 6/14/2022	Analysis Date: 6/16/2022	SeqNo: 3153288 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9699	0	86.6	68.8	120			
Toluene	0.88	0.048	0.9699	0	90.6	73.6	124			
Ethylbenzene	0.89	0.048	0.9699	0	92.2	72.7	129			
Xylenes, Total	2.7	0.097	2.910	0	92.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.98		0.9699		101	70	130			

Sample ID: 2206708-032amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-26	Batch ID: 68110	RunNo: 88814								
Prep Date: 6/14/2022	Analysis Date: 6/16/2022	SeqNo: 3153289 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.024	0.9653	0	77.7	68.8	120	11.3	20	
Toluene	0.80	0.048	0.9653	0	82.5	73.6	124	9.83	20	
Ethylbenzene	0.81	0.048	0.9653	0	83.9	72.7	129	9.93	20	
Xylenes, Total	2.5	0.097	2.896	0	85.5	75.7	126	8.66	20	
Surr: 4-Bromofluorobenzene	0.96		0.9653		99.2	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	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#: 2206708

22-Jun-22

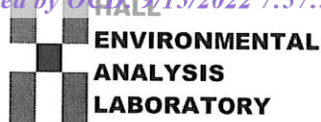
Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-68110	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68110		RunNo: 88814							
Prep Date: 6/14/2022	Analysis Date: 6/16/2022		SeqNo: 3153313		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.0	80	120			
Toluene	0.85	0.050	1.000	0	84.8	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.6	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.8	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	70	130			

Sample ID: mb-68110	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68110		RunNo: 88814							
Prep Date: 6/14/2022	Analysis Date: 6/16/2022		SeqNo: 3153314		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	0.96		1.000		96.3	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		



Sample Log-In Check List

Client Name: GHD

Work Order Number: 2206708

RcptNo: 1

Received By: Juan Rojas

6/14/2022 7:05:00 AM

Juan Rojas

Completed By: Sean Livingston

6/14/2022 8:55:20 AM

Sean Livingston

Reviewed By: KPG

6.14.22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: *JN 6/14/22*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	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)

Turn-Around Time:

☒ Standard ☒ Rush 5-6

Project Name:

Houlihan BA B. B.

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 4.5-0-21.5

Container

Preservative

Type and #

HEAL No.

Date Time Matrix Sample Name

08/22/2000

08/25

08/10

08/15

08/20

08/25

08/30

08/35

08/40

09/00

09/05

09/10

09/12

09/17

09/22

09/27

09/30

09/35

09/40

09/45

09/50

09/55

09/60

09/65

09/70

09/75

09/80

09/85

09/90

09/95

10/00

10/05

10/10

10/15

10/20

10/25

10/30

10/35

10/40

10/45

10/50

10/55

10/60

10/65

10/70

10/75

10/80

10/85

10/90

10/95

11/00

11/05

11/10

11/15

11/20

11/25

11/30

11/35

11/40

11/45

11/50

11/55

11/60

11/65

11/70

11/75

11/80

11/85

11/90

11/95

12/00

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12/60

12/65

12/70

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12/90

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25/70

25/75



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

July 01, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2206858

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 39 sample(s) on 6/16/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-17

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 8:00:00 AM

Lab ID: 2206858-001

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	120	60		mg/Kg	20	6/21/2022 1:34:07 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 4:29:33 PM	68211
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2022 4:29:33 PM	68211
Surr: DNOP	75.2	51.1-141		%Rec	1	6/22/2022 4:29:33 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 2:20:00 PM	68205
Surr: BFB	88.3	37.7-212		%Rec	1	6/20/2022 2:20:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 2:20:00 PM	68205
Toluene	ND	0.049		mg/Kg	1	6/20/2022 2:20:00 PM	68205
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 2:20:00 PM	68205
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 2:20:00 PM	68205
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/20/2022 2:20:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-18

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 8:05:00 AM

Lab ID: 2206858-002

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	270	60		mg/Kg	20	6/21/2022 1:46:28 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	120	14		mg/Kg	1	6/23/2022 1:14:24 PM	68211
Motor Oil Range Organics (MRO)	190	47		mg/Kg	1	6/23/2022 1:14:24 PM	68211
Surr: DNOP	100	51.1-141		%Rec	1	6/23/2022 1:14:24 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 2:40:00 PM	68205
Surr: BFB	88.3	37.7-212		%Rec	1	6/20/2022 2:40:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/20/2022 2:40:00 PM	68205
Toluene	ND	0.049		mg/Kg	1	6/20/2022 2:40:00 PM	68205
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 2:40:00 PM	68205
Xylenes, Total	ND	0.099		mg/Kg	1	6/20/2022 2:40:00 PM	68205
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	6/20/2022 2:40:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-19

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 8:10:00 AM

Lab ID: 2206858-003

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/21/2022 2:23:31 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 10:02:54 PM	68211
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2022 10:02:54 PM	68211
Surr: DNOP	64.8	51.1-141		%Rec	1	6/21/2022 10:02:54 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 2:59:00 PM	68205
Surr: BFB	86.7	37.7-212		%Rec	1	6/20/2022 2:59:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 2:59:00 PM	68205
Toluene	ND	0.049		mg/Kg	1	6/20/2022 2:59:00 PM	68205
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 2:59:00 PM	68205
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 2:59:00 PM	68205
Surr: 4-Bromofluorobenzene	83.1	70-130		%Rec	1	6/20/2022 2:59:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-20

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 8:15:00 AM

Lab ID: 2206858-004

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	77	60		mg/Kg	20	6/21/2022 2:35:52 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/21/2022 10:13:56 PM	68211
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/21/2022 10:13:56 PM	68211
Surr: DNOP	55.7	51.1-141		%Rec	1	6/21/2022 10:13:56 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/20/2022 3:39:00 PM	68205
Surr: BFB	85.3	37.7-212		%Rec	1	6/20/2022 3:39:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 3:39:00 PM	68205
Toluene	ND	0.047		mg/Kg	1	6/20/2022 3:39:00 PM	68205
Ethylbenzene	ND	0.047		mg/Kg	1	6/20/2022 3:39:00 PM	68205
Xylenes, Total	ND	0.094		mg/Kg	1	6/20/2022 3:39:00 PM	68205
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	6/20/2022 3:39:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-21

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 8:20:00 AM

Lab ID: 2206858-005

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	190	60		mg/Kg	20	6/21/2022 2:48:13 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	37	14		mg/Kg	1	6/23/2022 8:51:46 AM	68211
Motor Oil Range Organics (MRO)	80	47		mg/Kg	1	6/23/2022 8:51:46 AM	68211
Surr: DNOP	76.5	51.1-141		%Rec	1	6/23/2022 8:51:46 AM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/20/2022 3:59:00 PM	68205
Surr: BFB	81.7	37.7-212		%Rec	1	6/20/2022 3:59:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/20/2022 3:59:00 PM	68205
Toluene	ND	0.047		mg/Kg	1	6/20/2022 3:59:00 PM	68205
Ethylbenzene	ND	0.047		mg/Kg	1	6/20/2022 3:59:00 PM	68205
Xylenes, Total	ND	0.093		mg/Kg	1	6/20/2022 3:59:00 PM	68205
Surr: 4-Bromofluorobenzene	82.1	70-130		%Rec	1	6/20/2022 3:59:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-22

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 8:25:00 AM

Lab ID: 2206858-006

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/21/2022 3:00:33 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/21/2022 10:36:22 PM	68211
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/21/2022 10:36:22 PM	68211
Surr: DNOP	84.1	51.1-141		%Rec	1	6/21/2022 10:36:22 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 4:18:00 PM	68205
Surr: BFB	84.8	37.7-212		%Rec	1	6/20/2022 4:18:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 4:18:00 PM	68205
Toluene	ND	0.049		mg/Kg	1	6/20/2022 4:18:00 PM	68205
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 4:18:00 PM	68205
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 4:18:00 PM	68205
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	6/20/2022 4:18:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-28

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:00:00 AM

Lab ID: 2206858-007

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	280	60		mg/Kg	20	6/21/2022 3:12:53 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	92	15		mg/Kg	1	6/21/2022 10:47:35 PM	68211
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	6/21/2022 10:47:35 PM	68211
Surr: DNOP	75.1	51.1-141		%Rec	1	6/21/2022 10:47:35 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/20/2022 4:38:00 PM	68205
Surr: BFB	84.8	37.7-212		%Rec	1	6/20/2022 4:38:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/20/2022 4:38:00 PM	68205
Toluene	ND	0.047		mg/Kg	1	6/20/2022 4:38:00 PM	68205
Ethylbenzene	ND	0.047		mg/Kg	1	6/20/2022 4:38:00 PM	68205
Xylenes, Total	ND	0.094		mg/Kg	1	6/20/2022 4:38:00 PM	68205
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	6/20/2022 4:38:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-29

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:05:00 AM

Lab ID: 2206858-008

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	60		mg/Kg	20	6/21/2022 3:25:14 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	210	14		mg/Kg	1	6/21/2022 10:58:47 PM	68211
Motor Oil Range Organics (MRO)	200	46		mg/Kg	1	6/21/2022 10:58:47 PM	68211
Surr: DNOP	88.7	51.1-141		%Rec	1	6/21/2022 10:58:47 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 4:58:00 PM	68205
Surr: BFB	82.9	37.7-212		%Rec	1	6/20/2022 4:58:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 4:58:00 PM	68205
Toluene	ND	0.049		mg/Kg	1	6/20/2022 4:58:00 PM	68205
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 4:58:00 PM	68205
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 4:58:00 PM	68205
Surr: 4-Bromofluorobenzene	81.1	70-130		%Rec	1	6/20/2022 4:58:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-30

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:10:00 AM

Lab ID: 2206858-009

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	720	60		mg/Kg	20	6/21/2022 3:37:35 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	37	14		mg/Kg	1	6/23/2022 9:13:21 AM	68211
Motor Oil Range Organics (MRO)	96	48		mg/Kg	1	6/23/2022 9:13:21 AM	68211
Surr: DNOP	86.7	51.1-141		%Rec	1	6/23/2022 9:13:21 AM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/20/2022 5:18:00 PM	68205
Surr: BFB	84.2	37.7-212		%Rec	1	6/20/2022 5:18:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/20/2022 5:18:00 PM	68205
Toluene	ND	0.046		mg/Kg	1	6/20/2022 5:18:00 PM	68205
Ethylbenzene	ND	0.046		mg/Kg	1	6/20/2022 5:18:00 PM	68205
Xylenes, Total	ND	0.093		mg/Kg	1	6/20/2022 5:18:00 PM	68205
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	6/20/2022 5:18:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-31

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:15:00 AM

Lab ID: 2206858-010

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	60		mg/Kg	20	6/21/2022 3:49:55 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 11:21:06 PM	68211
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2022 11:21:06 PM	68211
Surr: DNOP	67.4	51.1-141		%Rec	1	6/21/2022 11:21:06 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2022 5:38:00 PM	68205
Surr: BFB	87.9	37.7-212		%Rec	1	6/20/2022 5:38:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/20/2022 5:38:00 PM	68205
Toluene	ND	0.050		mg/Kg	1	6/20/2022 5:38:00 PM	68205
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2022 5:38:00 PM	68205
Xylenes, Total	ND	0.10		mg/Kg	1	6/20/2022 5:38:00 PM	68205
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	6/20/2022 5:38:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-32

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:20:00 AM

Lab ID: 2206858-011

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	490	60		mg/Kg	20	6/21/2022 4:02:16 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	83	13		mg/Kg	1	6/21/2022 11:32:15 PM	68211
Motor Oil Range Organics (MRO)	89	42		mg/Kg	1	6/21/2022 11:32:15 PM	68211
Surr: DNOP	64.4	51.1-141		%Rec	1	6/21/2022 11:32:15 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 5:58:00 PM	68205
Surr: BFB	87.6	37.7-212		%Rec	1	6/20/2022 5:58:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 5:58:00 PM	68205
Toluene	ND	0.049		mg/Kg	1	6/20/2022 5:58:00 PM	68205
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 5:58:00 PM	68205
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 5:58:00 PM	68205
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	6/20/2022 5:58:00 PM	68205

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-33

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:25:00 AM

Lab ID: 2206858-012

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1700	59		mg/Kg	20	6/21/2022 4:14:36 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	140	14		mg/Kg	1	6/23/2022 9:34:54 AM	68211
Motor Oil Range Organics (MRO)	200	46		mg/Kg	1	6/23/2022 9:34:54 AM	68211
Surr: DNOP	85.2	51.1-141		%Rec	1	6/23/2022 9:34:54 AM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/20/2022 6:17:00 PM	68205
Surr: BFB	82.9	37.7-212		%Rec	1	6/20/2022 6:17:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 6:17:00 PM	68205
Toluene	ND	0.048		mg/Kg	1	6/20/2022 6:17:00 PM	68205
Ethylbenzene	ND	0.048		mg/Kg	1	6/20/2022 6:17:00 PM	68205
Xylenes, Total	ND	0.096		mg/Kg	1	6/20/2022 6:17:00 PM	68205
Surr: 4-Bromofluorobenzene	80.0	70-130		%Rec	1	6/20/2022 6:17:00 PM	68205

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-34

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:30:00 AM

Lab ID: 2206858-013

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2400	150		mg/Kg	50	6/22/2022 12:38:23 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	100	15		mg/Kg	1	6/21/2022 11:54:31 PM	68211
Motor Oil Range Organics (MRO)	130	49		mg/Kg	1	6/21/2022 11:54:31 PM	68211
Surr: DNOP	79.0	51.1-141		%Rec	1	6/21/2022 11:54:31 PM	68211
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/20/2022 6:37:00 PM	68205
Surr: BFB	82.7	37.7-212		%Rec	1	6/20/2022 6:37:00 PM	68205
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/20/2022 6:37:00 PM	68205
Toluene	ND	0.046		mg/Kg	1	6/20/2022 6:37:00 PM	68205
Ethylbenzene	ND	0.046		mg/Kg	1	6/20/2022 6:37:00 PM	68205
Xylenes, Total	ND	0.092		mg/Kg	1	6/20/2022 6:37:00 PM	68205
Surr: 4-Bromofluorobenzene	81.1	70-130		%Rec	1	6/20/2022 6:37:00 PM	68205

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-35

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:35:00 AM

Lab ID: 2206858-014

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	740	60		mg/Kg	20	6/21/2022 5:04:01 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	43	14		mg/Kg	1	6/21/2022 7:03:37 PM	68230
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/21/2022 7:03:37 PM	68230
Surr: DNOP	97.8	51.1-141		%Rec	1	6/21/2022 7:03:37 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 9:35:00 PM	68216
Surr: BFB	84.9	37.7-212		%Rec	1	6/20/2022 9:35:00 PM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 9:35:00 PM	68216
Toluene	ND	0.049		mg/Kg	1	6/20/2022 9:35:00 PM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 9:35:00 PM	68216
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2022 9:35:00 PM	68216
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	6/20/2022 9:35:00 PM	68216

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-36

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:40:00 AM

Lab ID: 2206858-015

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	450	60		mg/Kg	20	6/21/2022 5:16:22 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	100	15		mg/Kg	1	6/21/2022 7:47:57 PM	68230
Motor Oil Range Organics (MRO)	140	50		mg/Kg	1	6/21/2022 7:47:57 PM	68230
Surr: DNOP	61.1	51.1-141		%Rec	1	6/21/2022 7:47:57 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 10:34:00 PM	68216
Surr: BFB	86.1	37.7-212		%Rec	1	6/20/2022 10:34:00 PM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 10:34:00 PM	68216
Toluene	ND	0.049		mg/Kg	1	6/20/2022 10:34:00 PM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 10:34:00 PM	68216
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2022 10:34:00 PM	68216
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	6/20/2022 10:34:00 PM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-37

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 9:45:00 AM

Lab ID: 2206858-016

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2200	60		mg/Kg	20	6/21/2022 5:28:42 PM	68248
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	69	15		mg/Kg	1	6/21/2022 8:17:02 PM	68230
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	6/21/2022 8:17:02 PM	68230
Surr: DNOP	79.1	51.1-141		%Rec	1	6/21/2022 8:17:02 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 10:54:00 PM	68216
Surr: BFB	82.3	37.7-212		%Rec	1	6/20/2022 10:54:00 PM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/20/2022 10:54:00 PM	68216
Toluene	ND	0.049		mg/Kg	1	6/20/2022 10:54:00 PM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 10:54:00 PM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 10:54:00 PM	68216
Surr: 4-Bromofluorobenzene	83.1	70-130		%Rec	1	6/20/2022 10:54:00 PM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-38

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:00:00 AM

Lab ID: 2206858-017

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1800	60		mg/Kg	20	6/21/2022 8:21:37 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	160	15		mg/Kg	1	6/21/2022 8:46:30 PM	68230
Motor Oil Range Organics (MRO)	180	49		mg/Kg	1	6/21/2022 8:46:30 PM	68230
Surr: DNOP	76.6	51.1-141		%Rec	1	6/21/2022 8:46:30 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 11:13:00 PM	68216
Surr: BFB	84.6	37.7-212		%Rec	1	6/20/2022 11:13:00 PM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 11:13:00 PM	68216
Toluene	ND	0.049		mg/Kg	1	6/20/2022 11:13:00 PM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 11:13:00 PM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 11:13:00 PM	68216
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	6/20/2022 11:13:00 PM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-39

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:05:00 AM

Lab ID: 2206858-018

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2300	150		mg/Kg	50	6/22/2022 12:50:45 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	36	14		mg/Kg	1	6/21/2022 9:15:41 PM	68230
Motor Oil Range Organics (MRO)	60	47		mg/Kg	1	6/21/2022 9:15:41 PM	68230
Surr: DNOP	87.0	51.1-141		%Rec	1	6/21/2022 9:15:41 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 11:33:00 PM	68216
Surr: BFB	85.6	37.7-212		%Rec	1	6/20/2022 11:33:00 PM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 11:33:00 PM	68216
Toluene	ND	0.049		mg/Kg	1	6/20/2022 11:33:00 PM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 11:33:00 PM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 11:33:00 PM	68216
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	6/20/2022 11:33:00 PM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-40

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:10:00 AM

Lab ID: 2206858-019

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	59		mg/Kg	20	6/21/2022 9:11:00 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	82	14		mg/Kg	1	6/21/2022 9:30:09 PM	68230
Motor Oil Range Organics (MRO)	100	48		mg/Kg	1	6/21/2022 9:30:09 PM	68230
Surr: DNOP	101	51.1-141		%Rec	1	6/21/2022 9:30:09 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/20/2022 11:53:00 PM	68216
Surr: BFB	83.9	37.7-212		%Rec	1	6/20/2022 11:53:00 PM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/20/2022 11:53:00 PM	68216
Toluene	ND	0.048		mg/Kg	1	6/20/2022 11:53:00 PM	68216
Ethylbenzene	ND	0.048		mg/Kg	1	6/20/2022 11:53:00 PM	68216
Xylenes, Total	ND	0.096		mg/Kg	1	6/20/2022 11:53:00 PM	68216
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	6/20/2022 11:53:00 PM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-41

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:15:00 AM

Lab ID: 2206858-020

Matrix: SOIL

Received Date: 6/16/2022 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	6/21/2022 9:48:03 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	79	15		mg/Kg	1	6/21/2022 9:44:47 PM	68230
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	6/21/2022 9:44:47 PM	68230
Surr: DNOP	86.6	51.1-141		%Rec	1	6/21/2022 9:44:47 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 12:13:00 AM	68216
Surr: BFB	86.1	37.7-212		%Rec	1	6/21/2022 12:13:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 12:13:00 AM	68216
Toluene	ND	0.050		mg/Kg	1	6/21/2022 12:13:00 AM	68216
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 12:13:00 AM	68216
Xylenes, Total	ND	0.10		mg/Kg	1	6/21/2022 12:13:00 AM	68216
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/21/2022 12:13:00 AM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-42

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:20:00 AM

Lab ID: 2206858-021

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2400	150		mg/Kg	50	6/22/2022 1:03:06 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	160	15		mg/Kg	1	6/21/2022 10:14:13 PM	68230
Motor Oil Range Organics (MRO)	190	49		mg/Kg	1	6/21/2022 10:14:13 PM	68230
Surr: DNOP	90.5	51.1-141		%Rec	1	6/21/2022 10:14:13 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 12:32:00 AM	68216
Surr: BFB	86.8	37.7-212		%Rec	1	6/21/2022 12:32:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 12:32:00 AM	68216
Toluene	ND	0.049		mg/Kg	1	6/21/2022 12:32:00 AM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 12:32:00 AM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2022 12:32:00 AM	68216
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	6/21/2022 12:32:00 AM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-43

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:25:00 AM

Lab ID: 2206858-022

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2500	150		mg/Kg	50	6/22/2022 1:15:28 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	88	15		mg/Kg	1	6/21/2022 10:43:57 PM	68230
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	6/21/2022 10:43:57 PM	68230
Surr: DNOP	91.9	51.1-141		%Rec	1	6/21/2022 10:43:57 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2022 12:52:00 AM	68216
Surr: BFB	90.4	37.7-212		%Rec	1	6/21/2022 12:52:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 12:52:00 AM	68216
Toluene	ND	0.048		mg/Kg	1	6/21/2022 12:52:00 AM	68216
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2022 12:52:00 AM	68216
Xylenes, Total	ND	0.097		mg/Kg	1	6/21/2022 12:52:00 AM	68216
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	6/21/2022 12:52:00 AM	68216

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-44

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:30:00 AM

Lab ID: 2206858-023

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3200	150		mg/Kg	50	6/22/2022 1:27:49 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	40	14		mg/Kg	1	6/21/2022 11:13:32 PM	68230
Motor Oil Range Organics (MRO)	87	48		mg/Kg	1	6/21/2022 11:13:32 PM	68230
Surr: DNOP	82.2	51.1-141		%Rec	1	6/21/2022 11:13:32 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 1:32:00 AM	68216
Surr: BFB	85.0	37.7-212		%Rec	1	6/21/2022 1:32:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 1:32:00 AM	68216
Toluene	ND	0.049		mg/Kg	1	6/21/2022 1:32:00 AM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 1:32:00 AM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2022 1:32:00 AM	68216
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/21/2022 1:32:00 AM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-45

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:35:00 AM

Lab ID: 2206858-024

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3200	150		mg/Kg	50	6/22/2022 1:40:10 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	56	14		mg/Kg	1	6/21/2022 11:43:12 PM	68230
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	6/21/2022 11:43:12 PM	68230
Surr: DNOP	77.6	51.1-141		%Rec	1	6/21/2022 11:43:12 PM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2022 1:51:00 AM	68216
Surr: BFB	85.1	37.7-212		%Rec	1	6/21/2022 1:51:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 1:51:00 AM	68216
Toluene	ND	0.048		mg/Kg	1	6/21/2022 1:51:00 AM	68216
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2022 1:51:00 AM	68216
Xylenes, Total	ND	0.097		mg/Kg	1	6/21/2022 1:51:00 AM	68216
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	6/21/2022 1:51:00 AM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-46

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:40:00 AM

Lab ID: 2206858-025

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3200	150		mg/Kg	50	6/22/2022 1:52:31 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	62	14		mg/Kg	1	6/22/2022 12:27:47 AM	68230
Motor Oil Range Organics (MRO)	82	48		mg/Kg	1	6/22/2022 12:27:47 AM	68230
Surr: DNOP	109	51.1-141		%Rec	1	6/22/2022 12:27:47 AM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 2:11:00 AM	68216
Surr: BFB	85.0	37.7-212		%Rec	1	6/21/2022 2:11:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 2:11:00 AM	68216
Toluene	ND	0.049		mg/Kg	1	6/21/2022 2:11:00 AM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 2:11:00 AM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2022 2:11:00 AM	68216
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	6/21/2022 2:11:00 AM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-47

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 10:45:00 AM

Lab ID: 2206858-026

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	210	60		mg/Kg	20	6/21/2022 11:02:10 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 12:42:38 AM	68230
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2022 12:42:38 AM	68230
Surr: DNOP	83.6	51.1-141		%Rec	1	6/22/2022 12:42:38 AM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 2:31:00 AM	68216
Surr: BFB	84.6	37.7-212		%Rec	1	6/21/2022 2:31:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 2:31:00 AM	68216
Toluene	ND	0.049		mg/Kg	1	6/21/2022 2:31:00 AM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 2:31:00 AM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2022 2:31:00 AM	68216
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	6/21/2022 2:31:00 AM	68216

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-48

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:00:00 AM

Lab ID: 2206858-027

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3100	150		mg/Kg	50	6/22/2022 2:04:51 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	110	15		mg/Kg	1	6/22/2022 12:57:24 AM	68230
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	6/22/2022 12:57:24 AM	68230
Surr: DNOP	97.6	51.1-141		%Rec	1	6/22/2022 12:57:24 AM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 2:51:00 AM	68216
Surr: BFB	89.3	37.7-212		%Rec	1	6/21/2022 2:51:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 2:51:00 AM	68216
Toluene	ND	0.049		mg/Kg	1	6/21/2022 2:51:00 AM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 2:51:00 AM	68216
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2022 2:51:00 AM	68216
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	6/21/2022 2:51:00 AM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-49

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:05:00 AM

Lab ID: 2206858-028

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3000	150		mg/Kg	50	6/22/2022 2:17:11 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	64	15		mg/Kg	1	6/22/2022 1:27:02 AM	68230
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	6/22/2022 1:27:02 AM	68230
Surr: DNOP	80.2	51.1-141		%Rec	1	6/22/2022 1:27:02 AM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 3:10:00 AM	68216
Surr: BFB	84.6	37.7-212		%Rec	1	6/21/2022 3:10:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 3:10:00 AM	68216
Toluene	ND	0.050		mg/Kg	1	6/21/2022 3:10:00 AM	68216
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 3:10:00 AM	68216
Xylenes, Total	ND	0.10		mg/Kg	1	6/21/2022 3:10:00 AM	68216
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	6/21/2022 3:10:00 AM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-50

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:10:00 AM

Lab ID: 2206858-029

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2300	150		mg/Kg	50	6/22/2022 2:29:32 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	78	15		mg/Kg	1	6/22/2022 1:56:39 AM	68230
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	6/22/2022 1:56:39 AM	68230
Surr: DNOP	85.5	51.1-141		%Rec	1	6/22/2022 1:56:39 AM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 3:30:00 AM	68216
Surr: BFB	87.0	37.7-212		%Rec	1	6/21/2022 3:30:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 3:30:00 AM	68216
Toluene	ND	0.050		mg/Kg	1	6/21/2022 3:30:00 AM	68216
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 3:30:00 AM	68216
Xylenes, Total	ND	0.10		mg/Kg	1	6/21/2022 3:30:00 AM	68216
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	6/21/2022 3:30:00 AM	68216

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-51

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:15:00 AM

Lab ID: 2206858-030

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1700	60		mg/Kg	20	6/22/2022 12:16:15 AM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	35	15		mg/Kg	1	6/22/2022 2:41:05 AM	68230
Motor Oil Range Organics (MRO)	64	49		mg/Kg	1	6/22/2022 2:41:05 AM	68230
Surr: DNOP	93.7	51.1-141		%Rec	1	6/22/2022 2:41:05 AM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 3:50:00 AM	68216
Surr: BFB	84.5	37.7-212		%Rec	1	6/21/2022 3:50:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 3:50:00 AM	68216
Toluene	ND	0.049		mg/Kg	1	6/21/2022 3:50:00 AM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 3:50:00 AM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2022 3:50:00 AM	68216
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	6/21/2022 3:50:00 AM	68216

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-52

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:20:00 AM

Lab ID: 2206858-031

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1400	60		mg/Kg	20	6/22/2022 12:28:35 AM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	24	14		mg/Kg	1	6/22/2022 2:55:55 AM	68230
Motor Oil Range Organics (MRO)	51	47		mg/Kg	1	6/22/2022 2:55:55 AM	68230
Surr: DNOP	89.7	51.1-141		%Rec	1	6/22/2022 2:55:55 AM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 4:10:00 AM	68216
Surr: BFB	83.1	37.7-212		%Rec	1	6/21/2022 4:10:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 4:10:00 AM	68216
Toluene	ND	0.049		mg/Kg	1	6/21/2022 4:10:00 AM	68216
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 4:10:00 AM	68216
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2022 4:10:00 AM	68216
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	6/21/2022 4:10:00 AM	68216

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-53

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:25:00 AM

Lab ID: 2206858-032

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	8700	300		mg/Kg	100	6/22/2022 3:06:34 PM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/22/2022 3:10:41 AM	68230
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/22/2022 3:10:41 AM	68230
Surr: DNOP	91.3	51.1-141		%Rec	1	6/22/2022 3:10:41 AM	68230
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 4:29:00 AM	68216
Surr: BFB	84.8	37.7-212		%Rec	1	6/21/2022 4:29:00 AM	68216
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 4:29:00 AM	68216
Toluene	ND	0.050		mg/Kg	1	6/21/2022 4:29:00 AM	68216
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 4:29:00 AM	68216
Xylenes, Total	ND	0.10		mg/Kg	1	6/21/2022 4:29:00 AM	68216
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	6/21/2022 4:29:00 AM	68216

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-54

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:30:00 AM

Lab ID: 2206858-033

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1500	60		mg/Kg	20	6/22/2022 12:53:16 AM	68274
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 2:12:59 PM	68231
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2022 2:12:59 PM	68231
Surr: DNOP	99.6	51.1-141		%Rec	1	6/21/2022 2:12:59 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 7:37:29 PM	68217
Surr: BFB	91.6	37.7-212		%Rec	1	6/20/2022 7:37:29 PM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/20/2022 7:37:29 PM	68217
Toluene	ND	0.049		mg/Kg	1	6/20/2022 7:37:29 PM	68217
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 7:37:29 PM	68217
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 7:37:29 PM	68217
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	6/20/2022 7:37:29 PM	68217

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-55

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:35:00 AM

Lab ID: 2206858-034

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3800	150		mg/Kg	50	6/23/2022 2:33:24 PM	68287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 3:10:48 PM	68231
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2022 3:10:48 PM	68231
Surr: DNOP	82.1	51.1-141		%Rec	1	6/21/2022 3:10:48 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 8:48:02 PM	68217
Surr: BFB	93.9	37.7-212		%Rec	1	6/20/2022 8:48:02 PM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/20/2022 8:48:02 PM	68217
Toluene	ND	0.049		mg/Kg	1	6/20/2022 8:48:02 PM	68217
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 8:48:02 PM	68217
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 8:48:02 PM	68217
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	6/20/2022 8:48:02 PM	68217

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-56

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:40:00 AM

Lab ID: 2206858-035

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3300	150		mg/Kg	50	6/23/2022 2:45:48 PM	68287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 3:25:16 PM	68231
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2022 3:25:16 PM	68231
Surr: DNOP	84.5	51.1-141		%Rec	1	6/21/2022 3:25:16 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 9:58:47 PM	68217
Surr: BFB	92.8	37.7-212		%Rec	1	6/20/2022 9:58:47 PM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/20/2022 9:58:47 PM	68217
Toluene	ND	0.049		mg/Kg	1	6/20/2022 9:58:47 PM	68217
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 9:58:47 PM	68217
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2022 9:58:47 PM	68217
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	6/20/2022 9:58:47 PM	68217

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-23

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 11:45:00 AM

Lab ID: 2206858-036

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	210	59		mg/Kg	20	6/22/2022 2:31:29 PM	68287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 3:39:41 PM	68231
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2022 3:39:41 PM	68231
Surr: DNOP	80.7	51.1-141		%Rec	1	6/21/2022 3:39:41 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 10:22:22 PM	68217
Surr: BFB	92.6	37.7-212		%Rec	1	6/20/2022 10:22:22 PM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/20/2022 10:22:22 PM	68217
Toluene	ND	0.049		mg/Kg	1	6/20/2022 10:22:22 PM	68217
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 10:22:22 PM	68217
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2022 10:22:22 PM	68217
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	6/20/2022 10:22:22 PM	68217

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-57

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 12:00:00 PM

Lab ID: 2206858-037

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	60		mg/Kg	20	6/22/2022 2:43:53 PM	68287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	68	15		mg/Kg	1	6/23/2022 10:59:12 AM	68231
Motor Oil Range Organics (MRO)	130	49		mg/Kg	1	6/23/2022 10:59:12 AM	68231
Surr: DNOP	80.2	51.1-141		%Rec	1	6/23/2022 10:59:12 AM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/20/2022 10:45:56 PM	68217
Surr: BFB	92.1	37.7-212		%Rec	1	6/20/2022 10:45:56 PM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/20/2022 10:45:56 PM	68217
Toluene	ND	0.048		mg/Kg	1	6/20/2022 10:45:56 PM	68217
Ethylbenzene	ND	0.048		mg/Kg	1	6/20/2022 10:45:56 PM	68217
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2022 10:45:56 PM	68217
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	6/20/2022 10:45:56 PM	68217

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

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

Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-24

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 12:05:00 PM

Lab ID: 2206858-038

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	60		mg/Kg	20	6/22/2022 2:56:17 PM	68287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	43	15		mg/Kg	1	6/23/2022 11:20:22 AM	68231
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	6/23/2022 11:20:22 AM	68231
Surr: DNOP	74.7	51.1-141		%Rec	1	6/23/2022 11:20:22 AM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2022 11:09:29 PM	68217
Surr: BFB	89.6	37.7-212		%Rec	1	6/20/2022 11:09:29 PM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/20/2022 11:09:29 PM	68217
Toluene	ND	0.050		mg/Kg	1	6/20/2022 11:09:29 PM	68217
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2022 11:09:29 PM	68217
Xylenes, Total	ND	0.099		mg/Kg	1	6/20/2022 11:09:29 PM	68217
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	6/20/2022 11:09:29 PM	68217

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

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Analytical Report

Lab Order 2206858

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-25

Project: Hornbaker BA Battery

Collection Date: 6/14/2022 12:10:00 PM

Lab ID: 2206858-039

Matrix: SOIL

Received Date: 6/16/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	890	60		mg/Kg	20	6/22/2022 6:02:23 PM	68287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	90	15		mg/Kg	1	6/23/2022 11:41:38 AM	68231
Motor Oil Range Organics (MRO)	160	50		mg/Kg	1	6/23/2022 11:41:38 AM	68231
Surr: DNOP	71.5	51.1-141		%Rec	1	6/23/2022 11:41:38 AM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2022 11:33:01 PM	68217
Surr: BFB	93.2	37.7-212		%Rec	1	6/20/2022 11:33:01 PM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/20/2022 11:33:01 PM	68217
Toluene	ND	0.049		mg/Kg	1	6/20/2022 11:33:01 PM	68217
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2022 11:33:01 PM	68217
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2022 11:33:01 PM	68217
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	6/20/2022 11:33:01 PM	68217

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

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

WO#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68248	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68248	RunNo: 88931								
Prep Date: 6/21/2022	Analysis Date: 6/21/2022	SeqNo: 3158097 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68248	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68248	RunNo: 88931								
Prep Date: 6/21/2022	Analysis Date: 6/21/2022	SeqNo: 3158098 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

Sample ID: MB-68274	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68274	RunNo: 88931								
Prep Date: 6/21/2022	Analysis Date: 6/21/2022	SeqNo: 3158129 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68274	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68274	RunNo: 88931								
Prep Date: 6/21/2022	Analysis Date: 6/21/2022	SeqNo: 3158130 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Sample ID: MB-68287	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68287	RunNo: 88947								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159736 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68287	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68287	RunNo: 88947								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159737 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

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

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

WO#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-68211	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 68211			RunNo: 88913						
Prep Date: 6/17/2022	Analysis Date: 6/21/2022			SeqNo: 3158544		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	96.4	64.4	127			
Surr: DNOP	3.8		5.000		75.8	51.1	141			

Sample ID: MB-68211	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 68211			RunNo: 88913						
Prep Date: 6/17/2022	Analysis Date: 6/21/2022			SeqNo: 3158547		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.0	51.1	141			

Sample ID: MB-68231	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 68231			RunNo: 88925						
Prep Date: 6/20/2022	Analysis Date: 6/21/2022			SeqNo: 3158629		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	51.1	141			

Sample ID: LCS-68231	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 68231			RunNo: 88925						
Prep Date: 6/20/2022	Analysis Date: 6/21/2022			SeqNo: 3158631		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	50.00	0	86.5	64.4	127			
Surr: DNOP	4.3		5.000		86.2	51.1	141			

Sample ID: MB-68230	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 68230			RunNo: 88926						
Prep Date: 6/20/2022	Analysis Date: 6/21/2022			SeqNo: 3159593		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-68230	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 68230		RunNo: 88926							
Prep Date: 6/20/2022	Analysis Date: 6/21/2022		SeqNo: 3159594		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	94.8	64.4	127			
Surr: DNOP	5.3		5.000		107	51.1	141			

Sample ID: 2206858-033AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH-54	Batch ID: 68231		RunNo: 88926							
Prep Date: 6/20/2022	Analysis Date: 6/21/2022		SeqNo: 3159596		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.35	0	93.7	36.1	154			
Surr: DNOP	4.8		5.035		96.1	51.1	141			

Sample ID: 2206858-033AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH-54	Batch ID: 68231		RunNo: 88926							
Prep Date: 6/20/2022	Analysis Date: 6/21/2022		SeqNo: 3159597		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	14	47.76	0	105	36.1	154	5.86	33.9	
Surr: DNOP	4.8		4.776		99.7	51.1	141	0	0	

Sample ID: 2206858-014AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH-35	Batch ID: 68230		RunNo: 88926							
Prep Date: 6/20/2022	Analysis Date: 6/21/2022		SeqNo: 3159616		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	15	50.00	42.66	32.1	36.1	154			S
Surr: DNOP	4.0		5.000		79.1	51.1	141			

Sample ID: 2206858-014AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH-35	Batch ID: 68230		RunNo: 88926							
Prep Date: 6/20/2022	Analysis Date: 6/21/2022		SeqNo: 3159617		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	87	15	49.85	42.66	88.6	36.1	154	38.6	33.9	R
Surr: DNOP	4.6		4.985		91.4	51.1	141	0	0	

Sample ID: MB-68322	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 68322		RunNo: 88982							
Prep Date: 6/23/2022	Analysis Date: 6/24/2022		SeqNo: 3162904		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 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#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68322	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68322	RunNo: 88982								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3162904			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: LCS-68322	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68322	RunNo: 88982								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3162905			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		109	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-68217	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68217			RunNo: 88881						
Prep Date: 6/19/2022	Analysis Date: 6/21/2022			SeqNo: 3155809		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	37.7	212			

Sample ID: lcs-68217	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68217			RunNo: 88881						
Prep Date: 6/19/2022	Analysis Date: 6/20/2022			SeqNo: 3155810		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	2100		1000		215	37.7	212			S

Sample ID: 2206858-033ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-54	Batch ID: 68217			RunNo: 88881						
Prep Date: 6/19/2022	Analysis Date: 6/20/2022			SeqNo: 3155812		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.9	24.32	0	127	70	130			
Surr: BFB	2200		972.8		226	37.7	212			S

Sample ID: lcs-68205	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68205			RunNo: 88882						
Prep Date: 6/17/2022	Analysis Date: 6/20/2022			SeqNo: 3155922		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.3	72.3	137			
Surr: BFB	1900		1000		186	37.7	212			

Sample ID: mb-68205	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68205			RunNo: 88882						
Prep Date: 6/17/2022	Analysis Date: 6/20/2022			SeqNo: 3155923		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	850		1000		84.6	37.7	212			

Sample ID: lcs-68216	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68216			RunNo: 88882						
Prep Date: 6/19/2022	Analysis Date: 6/20/2022			SeqNo: 3155946		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-68216	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68216	RunNo: 88882								
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155946 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	99.4	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: mb-68216	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68216	RunNo: 88882								
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155947 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	860		1000		85.5	37.7	212			

Sample ID: 2206858-033AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-54	Batch ID: 68217	RunNo: 88920								
Prep Date: 6/19/2022	Analysis Date: 6/21/2022	SeqNo: 3157682 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.53	0	104	70	130	18.8	20	
Surr: BFB	1900		981.4		196	37.7	212	0	0	

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#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-68217	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68217	RunNo: 88881								
Prep Date: 6/19/2022	Analysis Date: 6/21/2022	SeqNo: 3155844 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-68217	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68217	RunNo: 88881								
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155845 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	83.5	80	120			
Toluene	0.89	0.050	1.000	0	89.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	70	130			

Sample ID: 2206858-034ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-55	Batch ID: 68217	RunNo: 88881								
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155848 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9891	0	87.5	68.8	120			
Toluene	0.93	0.049	0.9891	0	93.7	73.6	124			
Ethylbenzene	0.95	0.049	0.9891	0	95.8	72.7	129			
Xylenes, Total	2.8	0.099	2.967	0	96.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9891		90.8	70	130			

Sample ID: 2206858-034amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-55	Batch ID: 68217	RunNo: 88881								
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155849 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9766	0	82.1	68.8	120	7.60	20	
Toluene	0.87	0.049	0.9766	0	88.6	73.6	124	6.86	20	
Ethylbenzene	0.88	0.049	0.9766	0	90.5	72.7	129	6.96	20	
Xylenes, Total	2.7	0.098	2.930	0	91.3	75.7	126	6.29	20	
Surr: 4-Bromofluorobenzene	0.91		0.9766		93.5	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	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#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-68205	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68205			RunNo: 88882						
Prep Date: 6/17/2022	Analysis Date: 6/20/2022			SeqNo: 3155970			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.3	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.7	70	130			

Sample ID: mb-68205	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68205			RunNo: 88882						
Prep Date: 6/17/2022	Analysis Date: 6/20/2022			SeqNo: 3155971			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	0.85		1.000		84.5	70	130			

Sample ID: lcs-68216	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68216			RunNo: 88882						
Prep Date: 6/19/2022	Analysis Date: 6/20/2022			SeqNo: 3155994			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	99.9	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130			

Sample ID: mb-68216	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68216			RunNo: 88882						
Prep Date: 6/19/2022	Analysis Date: 6/20/2022			SeqNo: 3155995			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	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#: 2206858

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2206858-014ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-35	Batch ID: 68216	RunNo: 88882								
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155998	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9794	0	97.6	68.8	120			
Toluene	1.0	0.049	0.9794	0	102	73.6	124			
Ethylbenzene	1.0	0.049	0.9794	0	102	72.7	129			
Xylenes, Total	3.0	0.098	2.938	0	102	75.7	126			
Surr: 4-Bromofluorobenzene	0.84		0.9794		85.4	70	130			

Sample ID: 2206858-014amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-35	Batch ID: 68216	RunNo: 88882								
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155999	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9862	0	98.3	68.8	120	1.45	20	
Toluene	1.0	0.049	0.9862	0	102	73.6	124	0.271	20	
Ethylbenzene	1.0	0.049	0.9862	0	102	72.7	129	0.0328	20	
Xylenes, Total	3.0	0.099	2.959	0	101	75.7	126	0.757	20	
Surr: 4-Bromofluorobenzene	0.82		0.9862		83.0	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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2206858

RcptNo: 1

Received By: Juan Rojas

6/16/2022 7:20:00 AM

Completed By: Tracy Casarrubias

6/16/2022 8:00:55 AM

Reviewed By:

KPA 6/16/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: mc6/16/22

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Not Present			

Chain-of-Custody Record

Client: GHD

Turn-Around Time:

☒ Standard
☒ Rush *S-8*
Project Name: *Haskell R A R 12*

Mailing Address:

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

Phone #: (505)377-4218

email or Fax#: Beckv.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: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp(Including CF): 44-0-1.4

Container Type and #

Preservative Type

HEAL No.

BTX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

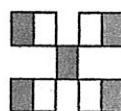
Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 300


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
06/12/20	0800	S	SLJ-17	Jar		001	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
0805			SLJ-18			002											
0810			SLJ-19			003											
0815			SLJ-20			004											
0820			SLJ-21			005											
0825			SLJ-22			006											
0830			SLJ-23			007											
0835			SLJ-24			008											
0840			SLJ-25			009											
0845			SLJ-26			010											
0850			SLJ-27			011											
0855			SLJ-28			012											
0900			SLJ-29			013											
0905			SLJ-30			014											
0910			SLJ-31			015											
0915			SLJ-32			016											
0920			SLJ-33			017											
0925			SLJ-34			018											

Date: 08/12/20 Time: 0800 Relinquished by: *Becky Haskell*Received by: *Zach Comino*Via: *Hand*

Date: 08/12/20 Time: 0800

Date: 08/12/20 Time: 0800 Relinquished by: *Becky Haskell*Received by: *Zach Comino*Via: *Hand*

Date: 08/12/20 Time: 0800

Date: 08/12/20 Time: 0800 Relinquished by: *Becky Haskell*Received by: *Zach Comino*Via: *Hand*

Date: 08/12/20 Time: 0800

Remarks: Please email: Chase_Settle@eogresources.com;

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

Matthew.Laughlin@ghd.com;

Amber_Griffin@eogresources.com; Along with Becky

Haskell listed above.

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 noted on the analytical report.

Direct Bill to EOG Chase Settle

Client: GHD

Mailing Address:

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

Phone #: (505) 377-4218

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

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ EDD (Type)

Turn-Around Time:

<input checked="" type="checkbox"/> Standard
Project Name:

~~Rush~~ S-89

Project #:

11228780

Project Manager:

Tom Larson

Sampler: Zach Comino

On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---------	---	-----------------------------

Cooler Temp(Including CF): 4.4-4.4

Container Type and #	Preservative Type	HEAL No
		22060858

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 300

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	Remarks:	Please email: Chase Settles@searcsources.com.
06/19/20	0930	S	Jac		013		X	X
	0935				014			
	0940				015			
	0945				016			
	1000				017			
	1005				018			
	1010				019			
	1015				020			
	1020				021			
	1025				022			
	1030				023			
	1035				024			

Remarks: Please email: Chase Sattler@searaspurposes.com:

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

Matthew.Laughlin@ghd.com;

Amber_Griffin@eogresources.com: Along with Becky

Haskell listed above

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 noted on the analytical report.

Released to Imaging: 9/20/2022 3:31:55 PM

Chain-of-Custody Record

Chain-of-Custody Record			Turn-Around Time:														
Client: GHD			<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <i>S-d</i>														
Mailing Address:			Project Name:														
324 W. Main St. Suite 108, Artesia NM 88210			Project #:														
Phone #: (505)377-4218			<i>Hendricks BA R. Kelly</i>														
email or Fax#: <i>Becky.Haskell@ghd.com</i>			Project Manager:														
QA/QC Package:			Becky Haskell														
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)			Tom Larson														
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NEIAC <input type="checkbox"/> Other			Sampler: Zach Comino														
<input type="checkbox"/> EDD (Type)			On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
			# of Coolers: 1														
			Cooler Temp (including CF): 4.4-0-4.4														
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.											
10/4/22	1045	S	BA-46	Ice		025	220680										
	1045		BA-47			026											
	1100		BA-48			027											
	1105		BA-49			028											
	1110		BA-50			029											
	1115		BA-51			030											
	1120		BA-52			031											
	1125		BA-53			032											
	1130		BA-54			033											
	1135		BA-55			034											
	1140		BA-56			035											
	1145		BA-23			036											
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time											
10/4/22	0800	<i>Becky Haskell</i>	<i>Zach Comino</i>		10/15/22	0800											
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time											
10/15/22	0800	<i>Becky Haskell</i>	<i>Zach Comino</i>		10/16/22	7:20											
Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com; Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.com; Along with Becky Haskell listed above.																	
Direct Bill to EOG Chase Settle																	



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

July 01, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2206960

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 28 sample(s) on 6/17/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-58

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:00:00 AM

Lab ID: 2206960-001

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1900	60		mg/Kg	20	6/22/2022 9:40:58 PM	68297
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 5:34:45 PM	68231
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2022 5:34:45 PM	68231
Surr: DNOP	107	51.1-141		%Rec	1	6/21/2022 5:34:45 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 3:29:19 AM	68217
Surr: BFB	96.2	37.7-212		%Rec	1	6/21/2022 3:29:19 AM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/21/2022 3:29:19 AM	68217
Toluene	ND	0.050		mg/Kg	1	6/21/2022 3:29:19 AM	68217
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 3:29:19 AM	68217
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2022 3:29:19 AM	68217
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	6/21/2022 3:29:19 AM	68217

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-59

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:05:00 AM

Lab ID: 2206960-002

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1600	60		mg/Kg	20	6/22/2022 10:18:00 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 5:49:19 PM	68231
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2022 5:49:19 PM	68231
Surr: DNOP	101	51.1-141		%Rec	1	6/21/2022 5:49:19 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 3:52:59 AM	68217
Surr: BFB	90.7	37.7-212		%Rec	1	6/21/2022 3:52:59 AM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/21/2022 3:52:59 AM	68217
Toluene	ND	0.050		mg/Kg	1	6/21/2022 3:52:59 AM	68217
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 3:52:59 AM	68217
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2022 3:52:59 AM	68217
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	6/21/2022 3:52:59 AM	68217

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-60

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:10:00 AM

Lab ID: 2206960-003

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2000	60		mg/Kg	20	6/22/2022 10:55:01 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 6:04:08 PM	68231
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2022 6:04:08 PM	68231
Surr: DNOP	88.2	51.1-141		%Rec	1	6/21/2022 6:04:08 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 4:16:39 AM	68217
Surr: BFB	94.5	37.7-212		%Rec	1	6/21/2022 4:16:39 AM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/21/2022 4:16:39 AM	68217
Toluene	ND	0.050		mg/Kg	1	6/21/2022 4:16:39 AM	68217
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 4:16:39 AM	68217
Xylenes, Total	ND	0.10		mg/Kg	1	6/21/2022 4:16:39 AM	68217
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	6/21/2022 4:16:39 AM	68217

Refer to the QC Summary report and sample login checklist for flagged QC data 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 3 of 38

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-61

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:15:00 AM

Lab ID: 2206960-004

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	4300	150		mg/Kg	50	6/23/2022 12:16:52 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 6:19:02 PM	68231
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2022 6:19:02 PM	68231
Surr: DNOP	91.1	51.1-141		%Rec	1	6/21/2022 6:19:02 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 4:40:09 AM	68217
Surr: BFB	92.4	37.7-212		%Rec	1	6/21/2022 4:40:09 AM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/21/2022 4:40:09 AM	68217
Toluene	ND	0.050		mg/Kg	1	6/21/2022 4:40:09 AM	68217
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 4:40:09 AM	68217
Xylenes, Total	ND	0.10		mg/Kg	1	6/21/2022 4:40:09 AM	68217
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	6/21/2022 4:40:09 AM	68217

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-62

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:20:00 AM

Lab ID: 2206960-005

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	130	60		mg/Kg	20	6/22/2022 11:19:43 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/21/2022 6:33:57 PM	68231
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2022 6:33:57 PM	68231
Surr: DNOP	78.2	51.1-141		%Rec	1	6/21/2022 6:33:57 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 5:55:41 PM	68217
Surr: BFB	106	37.7-212		%Rec	1	6/21/2022 5:55:41 PM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/21/2022 5:55:41 PM	68217
Toluene	ND	0.050		mg/Kg	1	6/21/2022 5:55:41 PM	68217
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 5:55:41 PM	68217
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2022 5:55:41 PM	68217
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	6/21/2022 5:55:41 PM	68217

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-63

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:25:00 AM

Lab ID: 2206960-006

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2700	150		mg/Kg	50	6/23/2022 12:29:17 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	110	14		mg/Kg	1	6/23/2022 12:02:58 PM	68231
Motor Oil Range Organics (MRO)	160	47		mg/Kg	1	6/23/2022 12:02:58 PM	68231
Surr: DNOP	79.0	51.1-141		%Rec	1	6/23/2022 12:02:58 PM	68231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2022 2:31:16 AM	68217
Surr: BFB	89.8	37.7-212		%Rec	1	6/22/2022 2:31:16 AM	68217
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/22/2022 2:31:16 AM	68217
Toluene	ND	0.049		mg/Kg	1	6/22/2022 2:31:16 AM	68217
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2022 2:31:16 AM	68217
Xylenes, Total	ND	0.097		mg/Kg	1	6/22/2022 2:31:16 AM	68217
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	6/22/2022 2:31:16 AM	68217

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-64

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:30:00 AM

Lab ID: 2206960-007

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2500	150		mg/Kg	50	6/23/2022 12:41:42 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	45	14		mg/Kg	1	6/21/2022 3:44:10 PM	68232
Motor Oil Range Organics (MRO)	82	48		mg/Kg	1	6/21/2022 3:44:10 PM	68232
Surr: DNOP	62.5	51.1-141		%Rec	1	6/21/2022 3:44:10 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2022 9:35:00 AM	68221
Surr: BFB	85.2	37.7-212		%Rec	1	6/21/2022 9:35:00 AM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 9:35:00 AM	68221
Toluene	ND	0.048		mg/Kg	1	6/21/2022 9:35:00 AM	68221
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2022 9:35:00 AM	68221
Xylenes, Total	ND	0.096		mg/Kg	1	6/21/2022 9:35:00 AM	68221
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/21/2022 9:35:00 AM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-65

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:35:00 AM

Lab ID: 2206960-008

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2800	150		mg/Kg	50	6/23/2022 12:54:06 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	98	15		mg/Kg	1	6/22/2022 6:36:36 AM	68232
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	6/22/2022 6:36:36 AM	68232
Surr: DNOP	87.4	51.1-141		%Rec	1	6/22/2022 6:36:36 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/21/2022 10:34:00 AM	68221
Surr: BFB	84.0	37.7-212		%Rec	1	6/21/2022 10:34:00 AM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/21/2022 10:34:00 AM	68221
Toluene	ND	0.047		mg/Kg	1	6/21/2022 10:34:00 AM	68221
Ethylbenzene	ND	0.047		mg/Kg	1	6/21/2022 10:34:00 AM	68221
Xylenes, Total	ND	0.094		mg/Kg	1	6/21/2022 10:34:00 AM	68221
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	6/21/2022 10:34:00 AM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-66

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:40:00 AM

Lab ID: 2206960-009

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1800	60		mg/Kg	20	6/23/2022 12:09:06 AM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	54	15		mg/Kg	1	6/22/2022 6:57:56 AM	68232
Motor Oil Range Organics (MRO)	78	49		mg/Kg	1	6/22/2022 6:57:56 AM	68232
Surr: DNOP	77.2	51.1-141		%Rec	1	6/22/2022 6:57:56 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/21/2022 11:33:00 AM	68221
Surr: BFB	85.2	37.7-212		%Rec	1	6/21/2022 11:33:00 AM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/21/2022 11:33:00 AM	68221
Toluene	ND	0.047		mg/Kg	1	6/21/2022 11:33:00 AM	68221
Ethylbenzene	ND	0.047		mg/Kg	1	6/21/2022 11:33:00 AM	68221
Xylenes, Total	ND	0.093		mg/Kg	1	6/21/2022 11:33:00 AM	68221
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	6/21/2022 11:33:00 AM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-67

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 8:45:00 AM

Lab ID: 2206960-010

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3200	150		mg/Kg	50	6/23/2022 1:06:31 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	140	15		mg/Kg	1	6/22/2022 7:19:18 AM	68232
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	6/22/2022 7:19:18 AM	68232
Surr: DNOP	64.2	51.1-141		%Rec	1	6/22/2022 7:19:18 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/21/2022 11:52:00 AM	68221
Surr: BFB	83.5	37.7-212		%Rec	1	6/21/2022 11:52:00 AM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 11:52:00 AM	68221
Toluene	ND	0.047		mg/Kg	1	6/21/2022 11:52:00 AM	68221
Ethylbenzene	ND	0.047		mg/Kg	1	6/21/2022 11:52:00 AM	68221
Xylenes, Total	ND	0.094		mg/Kg	1	6/21/2022 11:52:00 AM	68221
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	6/21/2022 11:52:00 AM	68221

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-68

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 9:00:00 AM

Lab ID: 2206960-011

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2000	60		mg/Kg	20	6/23/2022 12:33:49 AM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	48	14		mg/Kg	1	6/22/2022 7:40:38 AM	68232
Motor Oil Range Organics (MRO)	93	46		mg/Kg	1	6/22/2022 7:40:38 AM	68232
Surr: DNOP	64.2	51.1-141		%Rec	1	6/22/2022 7:40:38 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/21/2022 12:12:00 PM	68221
Surr: BFB	85.4	37.7-212		%Rec	1	6/21/2022 12:12:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/21/2022 12:12:00 PM	68221
Toluene	ND	0.046		mg/Kg	1	6/21/2022 12:12:00 PM	68221
Ethylbenzene	ND	0.046		mg/Kg	1	6/21/2022 12:12:00 PM	68221
Xylenes, Total	ND	0.092		mg/Kg	1	6/21/2022 12:12:00 PM	68221
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	6/21/2022 12:12:00 PM	68221

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-69

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 9:05:00 AM

Lab ID: 2206960-012

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2300	60		mg/Kg	20	6/23/2022 12:46:10 AM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	69	15		mg/Kg	1	6/22/2022 8:02:01 AM	68232
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	6/22/2022 8:02:01 AM	68232
Surr: DNOP	67.6	51.1-141		%Rec	1	6/22/2022 8:02:01 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/21/2022 12:31:00 PM	68221
Surr: BFB	86.6	37.7-212		%Rec	1	6/21/2022 12:31:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/21/2022 12:31:00 PM	68221
Toluene	ND	0.047		mg/Kg	1	6/21/2022 12:31:00 PM	68221
Ethylbenzene	ND	0.047		mg/Kg	1	6/21/2022 12:31:00 PM	68221
Xylenes, Total	ND	0.093		mg/Kg	1	6/21/2022 12:31:00 PM	68221
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	6/21/2022 12:31:00 PM	68221

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-70

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 9:10:00 AM

Lab ID: 2206960-013

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2400	150		mg/Kg	50	6/23/2022 1:18:56 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	66	15		mg/Kg	1	6/22/2022 8:23:24 AM	68232
Motor Oil Range Organics (MRO)	100	50		mg/Kg	1	6/22/2022 8:23:24 AM	68232
Surr: DNOP	69.9	51.1-141		%Rec	1	6/22/2022 8:23:24 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/21/2022 12:51:00 PM	68221
Surr: BFB	86.3	37.7-212		%Rec	1	6/21/2022 12:51:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/21/2022 12:51:00 PM	68221
Toluene	ND	0.047		mg/Kg	1	6/21/2022 12:51:00 PM	68221
Ethylbenzene	ND	0.047		mg/Kg	1	6/21/2022 12:51:00 PM	68221
Xylenes, Total	ND	0.094		mg/Kg	1	6/21/2022 12:51:00 PM	68221
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	6/21/2022 12:51:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-71

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 9:15:00 AM

Lab ID: 2206960-014

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2700	150		mg/Kg	50	6/23/2022 1:31:20 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	69	15		mg/Kg	1	6/22/2022 8:44:59 AM	68232
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	6/22/2022 8:44:59 AM	68232
Surr: DNOP	70.3	51.1-141		%Rec	1	6/22/2022 8:44:59 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2022 1:11:00 PM	68221
Surr: BFB	87.7	37.7-212		%Rec	1	6/21/2022 1:11:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 1:11:00 PM	68221
Toluene	ND	0.048		mg/Kg	1	6/21/2022 1:11:00 PM	68221
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2022 1:11:00 PM	68221
Xylenes, Total	ND	0.097		mg/Kg	1	6/21/2022 1:11:00 PM	68221
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	6/21/2022 1:11:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-72

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 9:20:00 AM

Lab ID: 2206960-015

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2700	150		mg/Kg	50	6/24/2022 2:31:35 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	62	15		mg/Kg	1	6/22/2022 9:06:35 AM	68232
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	6/22/2022 9:06:35 AM	68232
Surr: DNOP	75.4	51.1-141		%Rec	1	6/22/2022 9:06:35 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 1:31:00 PM	68221
Surr: BFB	88.9	37.7-212		%Rec	1	6/21/2022 1:31:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 1:31:00 PM	68221
Toluene	ND	0.050		mg/Kg	1	6/21/2022 1:31:00 PM	68221
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 1:31:00 PM	68221
Xylenes, Total	ND	0.10		mg/Kg	1	6/21/2022 1:31:00 PM	68221
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	6/21/2022 1:31:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-73

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 9:25:00 AM

Lab ID: 2206960-016

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2600	150		mg/Kg	50	6/23/2022 2:20:59 PM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	69	14		mg/Kg	1	6/22/2022 9:28:11 AM	68232
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	6/22/2022 9:28:11 AM	68232
Surr: DNOP	66.4	51.1-141		%Rec	1	6/22/2022 9:28:11 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2022 1:50:00 PM	68221
Surr: BFB	86.5	37.7-212		%Rec	1	6/21/2022 1:50:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 1:50:00 PM	68221
Toluene	ND	0.050		mg/Kg	1	6/21/2022 1:50:00 PM	68221
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2022 1:50:00 PM	68221
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2022 1:50:00 PM	68221
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/21/2022 1:50:00 PM	68221

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-26

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:00:00 AM

Lab ID: 2206960-017

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	99	60		mg/Kg	20	6/23/2022 3:02:00 AM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/23/2022 12:15:51 PM	68232
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/23/2022 12:15:51 PM	68232
Surr: DNOP	52.5	51.1-141		%Rec	1	6/23/2022 12:15:51 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 2:30:00 PM	68221
Surr: BFB	85.0	37.7-212		%Rec	1	6/21/2022 2:30:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 2:30:00 PM	68221
Toluene	ND	0.049		mg/Kg	1	6/21/2022 2:30:00 PM	68221
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 2:30:00 PM	68221
Xylenes, Total	0.10	0.097		mg/Kg	1	6/21/2022 2:30:00 PM	68221
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	6/21/2022 2:30:00 PM	68221

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-27

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:05:00 AM

Lab ID: 2206960-018

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	6/23/2022 3:14:21 AM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/22/2022 5:00:23 AM	68232
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/22/2022 5:00:23 AM	68232
Surr: DNOP	53.8	51.1-141		%Rec	1	6/22/2022 5:00:23 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2022 2:49:00 PM	68221
Surr: BFB	87.4	37.7-212		%Rec	1	6/21/2022 2:49:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 2:49:00 PM	68221
Toluene	ND	0.048		mg/Kg	1	6/21/2022 2:49:00 PM	68221
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2022 2:49:00 PM	68221
Xylenes, Total	ND	0.097		mg/Kg	1	6/21/2022 2:49:00 PM	68221
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	6/21/2022 2:49:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-28

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:10:00 AM

Lab ID: 2206960-019

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	120	60		mg/Kg	20	6/23/2022 3:51:23 AM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 5:11:08 AM	68232
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/22/2022 5:11:08 AM	68232
Surr: DNOP	75.0	51.1-141		%Rec	1	6/22/2022 5:11:08 AM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 3:09:00 PM	68221
Surr: BFB	84.3	37.7-212		%Rec	1	6/21/2022 3:09:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 3:09:00 PM	68221
Toluene	ND	0.049		mg/Kg	1	6/21/2022 3:09:00 PM	68221
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 3:09:00 PM	68221
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2022 3:09:00 PM	68221
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/21/2022 3:09:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-29

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:15:00 AM

Lab ID: 2206960-020

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	64	61		mg/Kg	20	6/23/2022 4:03:44 AM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 4:53:22 PM	68232
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2022 4:53:22 PM	68232
Surr: DNOP	71.2	51.1-141		%Rec	1	6/22/2022 4:53:22 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/21/2022 3:29:00 PM	68221
Surr: BFB	90.2	37.7-212		%Rec	1	6/21/2022 3:29:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 3:29:00 PM	68221
Toluene	ND	0.047		mg/Kg	1	6/21/2022 3:29:00 PM	68221
Ethylbenzene	ND	0.047		mg/Kg	1	6/21/2022 3:29:00 PM	68221
Xylenes, Total	ND	0.095		mg/Kg	1	6/21/2022 3:29:00 PM	68221
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	6/21/2022 3:29:00 PM	68221

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-30

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:20:00 AM

Lab ID: 2206960-021

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	6/23/2022 4:16:05 AM	68302
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 5:17:13 PM	68232
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2022 5:17:13 PM	68232
Surr: DNOP	71.8	51.1-141		%Rec	1	6/22/2022 5:17:13 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/21/2022 3:48:00 PM	68221
Surr: BFB	88.0	37.7-212		%Rec	1	6/21/2022 3:48:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/21/2022 3:48:00 PM	68221
Toluene	ND	0.047		mg/Kg	1	6/21/2022 3:48:00 PM	68221
Ethylbenzene	ND	0.047		mg/Kg	1	6/21/2022 3:48:00 PM	68221
Xylenes, Total	ND	0.093		mg/Kg	1	6/21/2022 3:48:00 PM	68221
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	6/21/2022 3:48:00 PM	68221

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-31

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:25:00 AM

Lab ID: 2206960-022

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/23/2022 2:23:21 PM	68311
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 5:41:14 PM	68232
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2022 5:41:14 PM	68232
Surr: DNOP	68.8	51.1-141		%Rec	1	6/22/2022 5:41:14 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2022 4:08:00 PM	68221
Surr: BFB	88.2	37.7-212		%Rec	1	6/21/2022 4:08:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 4:08:00 PM	68221
Toluene	ND	0.048		mg/Kg	1	6/21/2022 4:08:00 PM	68221
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2022 4:08:00 PM	68221
Xylenes, Total	ND	0.097		mg/Kg	1	6/21/2022 4:08:00 PM	68221
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	6/21/2022 4:08:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-32

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:40:00 AM

Lab ID: 2206960-023

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/23/2022 2:35:41 PM	68311
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 6:05:25 PM	68232
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/22/2022 6:05:25 PM	68232
Surr: DNOP	71.6	51.1-141		%Rec	1	6/22/2022 6:05:25 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 4:28:00 PM	68221
Surr: BFB	92.5	37.7-212		%Rec	1	6/21/2022 4:28:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 4:28:00 PM	68221
Toluene	ND	0.049		mg/Kg	1	6/21/2022 4:28:00 PM	68221
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 4:28:00 PM	68221
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2022 4:28:00 PM	68221
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	6/21/2022 4:28:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-33

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:45:00 AM

Lab ID: 2206960-024

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	190	60		mg/Kg	20	6/23/2022 2:48:01 PM	68311
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 6:29:46 PM	68232
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/22/2022 6:29:46 PM	68232
Surr: DNOP	66.0	51.1-141		%Rec	1	6/22/2022 6:29:46 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 4:48:00 PM	68221
Surr: BFB	90.7	37.7-212		%Rec	1	6/21/2022 4:48:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 4:48:00 PM	68221
Toluene	ND	0.049		mg/Kg	1	6/21/2022 4:48:00 PM	68221
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 4:48:00 PM	68221
Xylenes, Total	ND	0.097		mg/Kg	1	6/21/2022 4:48:00 PM	68221
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	6/21/2022 4:48:00 PM	68221

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

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

Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-34

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:50:00 AM

Lab ID: 2206960-025

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	290	60		mg/Kg	20	6/23/2022 3:00:22 PM	68311
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/22/2022 6:54:09 PM	68232
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/22/2022 6:54:09 PM	68232
Surr: DNOP	67.1	51.1-141		%Rec	1	6/22/2022 6:54:09 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/21/2022 5:07:00 PM	68221
Surr: BFB	87.5	37.7-212		%Rec	1	6/21/2022 5:07:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/21/2022 5:07:00 PM	68221
Toluene	ND	0.046		mg/Kg	1	6/21/2022 5:07:00 PM	68221
Ethylbenzene	ND	0.046		mg/Kg	1	6/21/2022 5:07:00 PM	68221
Xylenes, Total	ND	0.093		mg/Kg	1	6/21/2022 5:07:00 PM	68221
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	6/21/2022 5:07:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-35

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 10:55:00 AM

Lab ID: 2206960-026

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/23/2022 3:12:42 PM	68311
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/22/2022 7:18:25 PM	68232
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2022 7:18:25 PM	68232
Surr: DNOP	78.7	51.1-141		%Rec	1	6/22/2022 7:18:25 PM	68232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2022 5:27:00 PM	68221
Surr: BFB	89.3	37.7-212		%Rec	1	6/21/2022 5:27:00 PM	68221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 5:27:00 PM	68221
Toluene	ND	0.048		mg/Kg	1	6/21/2022 5:27:00 PM	68221
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2022 5:27:00 PM	68221
Xylenes, Total	ND	0.097		mg/Kg	1	6/21/2022 5:27:00 PM	68221
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	6/21/2022 5:27:00 PM	68221

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-36

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 11:00:00 AM

Lab ID: 2206960-027

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	200	60		mg/Kg	20	6/23/2022 2:58:12 PM	68312
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/22/2022 10:22:28 AM	68233
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/22/2022 10:22:28 AM	68233
Surr: DNOP	51.8	51.1-141		%Rec	1	6/22/2022 10:22:28 AM	68233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2022 7:25:00 PM	68222
Surr: BFB	86.5	37.7-212		%Rec	1	6/21/2022 7:25:00 PM	68222
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/21/2022 7:25:00 PM	68222
Toluene	ND	0.048		mg/Kg	1	6/21/2022 7:25:00 PM	68222
Ethylbenzene	0.054	0.048		mg/Kg	1	6/21/2022 7:25:00 PM	68222
Xylenes, Total	0.25	0.095		mg/Kg	1	6/21/2022 7:25:00 PM	68222
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	6/21/2022 7:25:00 PM	68222

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

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Analytical Report

Lab Order 2206960

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-37

Project: Hornbaker BA Battery

Collection Date: 6/15/2022 11:05:00 AM

Lab ID: 2206960-028

Matrix: SOIL

Received Date: 6/17/2022 10:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	120	60		mg/Kg	20	6/23/2022 3:35:27 PM	68312
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/22/2022 7:15:41 PM	68233
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/22/2022 7:15:41 PM	68233
Surr: DNOP	52.2	51.1-141		%Rec	1	6/22/2022 7:15:41 PM	68233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2022 8:24:00 PM	68222
Surr: BFB	88.8	37.7-212		%Rec	1	6/21/2022 8:24:00 PM	68222
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/21/2022 8:24:00 PM	68222
Toluene	ND	0.049		mg/Kg	1	6/21/2022 8:24:00 PM	68222
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2022 8:24:00 PM	68222
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2022 8:24:00 PM	68222
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/21/2022 8:24:00 PM	68222

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

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

WO#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68297	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68297	RunNo: 88965								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159374 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68297	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68297	RunNo: 88965								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159375 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			

Sample ID: MB-68302	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68302	RunNo: 88965								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159404 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68302	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68302	RunNo: 88965								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159405 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Sample ID: MB-68311	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68311	RunNo: 89002								
Prep Date: 6/23/2022	Analysis Date: 6/23/2022	SeqNo: 3160629 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68311	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68311	RunNo: 89002								
Prep Date: 6/23/2022	Analysis Date: 6/23/2022	SeqNo: 3160632 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.1	90	110			

Qualifiers:

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

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

WO#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68312	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68312	RunNo: 89005								
Prep Date: 6/23/2022	Analysis Date: 6/23/2022	SeqNo: 3160852	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68312	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68312	RunNo: 89005								
Prep Date: 6/23/2022	Analysis Date: 6/23/2022	SeqNo: 3160853	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

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

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

WO#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2206960-007AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-64	Batch ID: 68232	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158519 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	78	15	48.78	45.48	66.6	36.1	154			
Surr: DNOP	3.4		4.878		69.9	51.1	141			

Sample ID: 2206960-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-64	Batch ID: 68232	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158520 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	72	15	49.41	45.48	54.4	36.1	154	7.43	33.9	
Surr: DNOP	2.5		4.941		51.6	51.1	141	0	0	

Sample ID: LCS-68211	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68211	RunNo: 88913								
Prep Date: 6/17/2022	Analysis Date: 6/21/2022	SeqNo: 3158544 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.8	51.1	141			

Sample ID: LCS-68232	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68232	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158545 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	15	50.00	0	105	64.4	127			
Surr: DNOP	3.8		5.000		76.9	51.1	141			

Sample ID: MB-68211	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68211	RunNo: 88913								
Prep Date: 6/17/2022	Analysis Date: 6/21/2022	SeqNo: 3158547 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		99.0	51.1	141			

Sample ID: MB-68233	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68233	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158549 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								

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#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68233	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68233	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158549 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		109	51.1	141			

Sample ID: MB-68231	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68231	RunNo: 88925								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3158629 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	51.1	141			

Sample ID: LCS-68231	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68231	RunNo: 88925								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3158631 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	50.00	0	86.5	64.4	127			
Surr: DNOP	4.3		5.000		86.2	51.1	141			

Sample ID: 2206960-027AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-36	Batch ID: 68233	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158857 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	14	47.76	0	119	36.1	154			
Surr: DNOP	2.6		4.776		54.2	51.1	141			

Sample ID: 2206960-027AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-36	Batch ID: 68233	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158858 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	13	44.80	0	93.8	36.1	154	29.7	33.9	
Surr: DNOP	1.5		4.480		34.4	51.1	141	0	0	S

Sample ID: LCS-68233	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68233	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158876 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-68233	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68233	RunNo: 88913								
Prep Date: 6/20/2022	Analysis Date: 6/22/2022	SeqNo: 3158876	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	15	50.00	0	112	64.4	127			
Surr: DNOP	5.3		5.000		107	51.1	141			

Sample ID: MB-68232	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68232	RunNo: 88982								
Prep Date: 6/20/2022	Analysis Date: 6/23/2022	SeqNo: 3160123	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.3	51.1	141			

Sample ID: MB-68322	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68322	RunNo: 88982								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3162904	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: LCS-68322	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68322	RunNo: 88982								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3162905	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		109	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-68217	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68217			RunNo: 88881						
Prep Date: 6/19/2022	Analysis Date: 6/21/2022			SeqNo: 3155809		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	37.7	212			

Sample ID: lcs-68217	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68217			RunNo: 88881						
Prep Date: 6/19/2022	Analysis Date: 6/20/2022			SeqNo: 3155810		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	2100		1000		215	37.7	212			S

Sample ID: lcs-68221	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68221			RunNo: 88921						
Prep Date: 6/20/2022	Analysis Date: 6/21/2022			SeqNo: 3157742		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	72.3	137			
Surr: BFB	1900		1000		188	37.7	212			

Sample ID: mb-68221	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68221			RunNo: 88921						
Prep Date: 6/20/2022	Analysis Date: 6/21/2022			SeqNo: 3157743		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	850		1000		85.5	37.7	212			

Sample ID: 2206960-007ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-64	Batch ID: 68221			RunNo: 88921						
Prep Date: 6/20/2022	Analysis Date: 6/21/2022			SeqNo: 3157745		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	24.08	0	116	70	130			
Surr: BFB	2000		963.4		208	37.7	212			

Sample ID: 2206960-007amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-64	Batch ID: 68221			RunNo: 88921						
Prep Date: 6/20/2022	Analysis Date: 6/21/2022			SeqNo: 3157746		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2206960-007amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-64	Batch ID: 68221	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157746 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	24.06	0	114	70	130	1.83	20	
Surr: BFB	2000		962.5		206	37.7	212	0	0	

Sample ID: lcs-68222	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68222	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157766 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	98.2	72.3	137			
Surr: BFB	1900		1000		186	37.7	212			

Sample ID: mb-68222	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68222	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157767 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	870		1000		86.6	37.7	212			

Sample ID: 2206960-027ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SW-36	Batch ID: 68222	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157769 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.6	23.13	0	108	70	130			
Surr: BFB	1900		925.1		203	37.7	212			

Sample ID: 2206960-027amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SW-36	Batch ID: 68222	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157770 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.6	23.02	0	116	70	130	7.29	20	
Surr: BFB	1900		920.8		202	37.7	212	0	0	

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#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-68217	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68217	RunNo: 88881								
Prep Date: 6/19/2022	Analysis Date: 6/21/2022	SeqNo: 3155844 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-68217	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68217	RunNo: 88881								
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155845 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	83.5	80	120			
Toluene	0.89	0.050	1.000	0	89.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	70	130			

Sample ID: lcs-68221	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68221	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157790 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	83.2	80	120			
Toluene	0.86	0.050	1.000	0	85.8	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.6	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.9	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.5	70	130			

Sample ID: mb-68221	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68221	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157791 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		84.4	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		

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

WO#: 2206960

01-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2206960-008ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-65	Batch ID: 68221	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157794 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.023	0.9372	0	94.8	68.8	120			
Toluene	0.93	0.047	0.9372	0	99.1	73.6	124			
Ethylbenzene	0.93	0.047	0.9372	0	99.7	72.7	129			
Xylenes, Total	2.8	0.094	2.812	0	98.4	75.7	126			
Surr: 4-Bromofluorobenzene	0.79		0.9372		84.7	70	130			

Sample ID: 2206960-008amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-65	Batch ID: 68221	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157795 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9407	0	95.6	68.8	120	1.21	20	
Toluene	0.94	0.047	0.9407	0	100	73.6	124	1.22	20	
Ethylbenzene	0.95	0.047	0.9407	0	101	72.7	129	2.01	20	
Xylenes, Total	2.8	0.094	2.822	0	100	75.7	126	2.12	20	
Surr: 4-Bromofluorobenzene	0.78		0.9407		82.6	70	130	0	0	

Sample ID: lcs-68222	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68222	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157814 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.7	80	120			
Toluene	0.91	0.050	1.000	0	90.7	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.8	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	70	130			

Sample ID: mb-68222	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68222	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157815 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	0.85		1.000		84.5	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#: 2206960

01-Jul-22

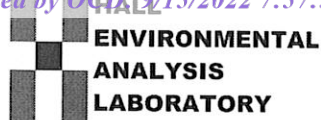
Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2206960-028ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-37	Batch ID: 68222	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157818 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9862	0	91.2	68.8	120			
Toluene	0.95	0.049	0.9862	0	96.3	73.6	124			
Ethylbenzene	0.96	0.049	0.9862	0.01313	96.2	72.7	129			
Xylenes, Total	2.9	0.099	2.959	0.06063	95.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9862		85.9	70	130			

Sample ID: 2206960-028amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-37	Batch ID: 68222	RunNo: 88921								
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3157819 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9823	0	91.2	68.8	120	0.459	20	
Toluene	0.95	0.049	0.9823	0	96.4	73.6	124	0.272	20	
Ethylbenzene	0.95	0.049	0.9823	0.01313	95.4	72.7	129	1.22	20	
Xylenes, Total	2.9	0.098	2.947	0.06063	94.8	75.7	126	1.44	20	
Surr: 4-Bromofluorobenzene	0.83		0.9823		84.6	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 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	



Sample Log-In Check List

Client Name: GHD

Work Order Number: 2206960

RcptNo: 1

Received By: Juan Rojas

6/17/2022 10:37:00 AM

Completed By: Isaiah Ortiz

6/17/2022 11:48:21 AM

Reviewed By:

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: JA 6/17/22Special 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	4.4	Good	Not Present			

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

~~Direct Bill to EOC Chase Settle~~

samples submitted to non 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#: Beckv.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:

Project #:

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice:

☒ Yes☐ No

of Coolers:

Cooler Temp (including CF):

HEAL No.

2206960

Container Type and #

Preservative Type

Date Time Matrix Sample Name

08/22/1000 S SW-34

1055 L SW-35

1100 L SW-36

1108 L SW-37

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 300

BTX / MTBE / TMB's (8021)

Remarks: Please email: Chase_Settle@eogresources.com;

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

Matthew.Laughlin@ghd.com;

Amber_Griffin@eogresources.com: Along with Becky

Haskell listed above.

Direct Bill to EOG-Chase Settle

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

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility.

Received by: Via: Date Time

Relinquished by: Relinquished by: Date Time

08/22/0800 0800 11/16/22 800

09/01/22 900 6/17/22 10:37

Hall Environmental

Becky Haskell

Zach Comino

Matthew Laughlin

Amber Griffin

Chase Settle

Tom Larson

Zach Comino

Matthew Laughlin

Amber Griffin

Chase Settle

Tom Larson

Zach Comino

Matthew Laughlin

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Zach Comino

Matthew Laughlin

Amber Griffin

Chase Settle

Tom Larson



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

July 14, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2207007

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 50 sample(s) on 7/1/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-74

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:00:00 AM

Lab ID: 2207007-001

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	480	60		mg/Kg	20	7/7/2022 8:30:59 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 5:39:19 PM	68569
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/7/2022 5:39:19 PM	68569
Surr: DNOP	96.9	51.1-141		%Rec	1	7/7/2022 5:39:19 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/5/2022 11:27:00 PM	68517
Surr: BFB	87.2	37.7-212		%Rec	1	7/5/2022 11:27:00 PM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/5/2022 11:27:00 PM	68517
Toluene	ND	0.050		mg/Kg	1	7/5/2022 11:27:00 PM	68517
Ethylbenzene	ND	0.050		mg/Kg	1	7/5/2022 11:27:00 PM	68517
Xylenes, Total	ND	0.099		mg/Kg	1	7/5/2022 11:27:00 PM	68517
Surr: 4-Bromofluorobenzene	80.9	70-130		%Rec	1	7/5/2022 11:27:00 PM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-75

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:05:00 AM

Lab ID: 2207007-002

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	230	60		mg/Kg	20	7/7/2022 8:43:23 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 5:53:35 PM	68569
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/7/2022 5:53:35 PM	68569
Surr: DNOP	97.1	51.1-141		%Rec	1	7/7/2022 5:53:35 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/5/2022 11:46:00 PM	68517
Surr: BFB	87.3	37.7-212		%Rec	1	7/5/2022 11:46:00 PM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/5/2022 11:46:00 PM	68517
Toluene	ND	0.049		mg/Kg	1	7/5/2022 11:46:00 PM	68517
Ethylbenzene	ND	0.049		mg/Kg	1	7/5/2022 11:46:00 PM	68517
Xylenes, Total	ND	0.098		mg/Kg	1	7/5/2022 11:46:00 PM	68517
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	7/5/2022 11:46:00 PM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-76

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:10:00 AM

Lab ID: 2207007-003

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	85	60		mg/Kg	20	7/7/2022 8:55:48 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/7/2022 6:08:20 PM	68569
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/7/2022 6:08:20 PM	68569
Surr: DNOP	96.9	51.1-141		%Rec	1	7/7/2022 6:08:20 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 12:06:00 AM	68517
Surr: BFB	90.3	37.7-212		%Rec	1	7/6/2022 12:06:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 12:06:00 AM	68517
Toluene	ND	0.048		mg/Kg	1	7/6/2022 12:06:00 AM	68517
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 12:06:00 AM	68517
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 12:06:00 AM	68517
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	7/6/2022 12:06:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-77

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:15:00 AM

Lab ID: 2207007-004

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	850	60		mg/Kg	20	7/7/2022 9:33:02 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 6:22:30 PM	68569
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/7/2022 6:22:30 PM	68569
Surr: DNOP	97.5	51.1-141		%Rec	1	7/7/2022 6:22:30 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 12:26:00 AM	68517
Surr: BFB	85.3	37.7-212		%Rec	1	7/6/2022 12:26:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 12:26:00 AM	68517
Toluene	ND	0.050		mg/Kg	1	7/6/2022 12:26:00 AM	68517
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 12:26:00 AM	68517
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2022 12:26:00 AM	68517
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	7/6/2022 12:26:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-78

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:20:00 AM

Lab ID: 2207007-005

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	740	60		mg/Kg	20	7/7/2022 9:45:27 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/7/2022 6:36:38 PM	68569
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/7/2022 6:36:38 PM	68569
Surr: DNOP	95.7	51.1-141		%Rec	1	7/7/2022 6:36:38 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 1:25:00 AM	68517
Surr: BFB	87.6	37.7-212		%Rec	1	7/6/2022 1:25:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 1:25:00 AM	68517
Toluene	ND	0.050		mg/Kg	1	7/6/2022 1:25:00 AM	68517
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 1:25:00 AM	68517
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 1:25:00 AM	68517
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	7/6/2022 1:25:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-79

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:25:00 AM

Lab ID: 2207007-006

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	130	60		mg/Kg	20	7/7/2022 9:57:52 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/7/2022 6:50:59 PM	68569
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/7/2022 6:50:59 PM	68569
Surr: DNOP	95.2	51.1-141		%Rec	1	7/7/2022 6:50:59 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 1:45:00 AM	68517
Surr: BFB	89.0	37.7-212		%Rec	1	7/6/2022 1:45:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 1:45:00 AM	68517
Toluene	ND	0.049		mg/Kg	1	7/6/2022 1:45:00 AM	68517
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 1:45:00 AM	68517
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 1:45:00 AM	68517
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	7/6/2022 1:45:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-80

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:30:00 AM

Lab ID: 2207007-007

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	7/7/2022 10:10:17 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 7:05:13 PM	68569
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/7/2022 7:05:13 PM	68569
Surr: DNOP	95.8	51.1-141		%Rec	1	7/7/2022 7:05:13 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 2:04:00 AM	68517
Surr: BFB	90.4	37.7-212		%Rec	1	7/6/2022 2:04:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 2:04:00 AM	68517
Toluene	ND	0.049		mg/Kg	1	7/6/2022 2:04:00 AM	68517
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 2:04:00 AM	68517
Xylenes, Total	ND	0.098		mg/Kg	1	7/6/2022 2:04:00 AM	68517
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	7/6/2022 2:04:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-81

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:35:00 AM

Lab ID: 2207007-008

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	66	60		mg/Kg	20	7/7/2022 10:22:41 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 7:19:26 PM	68569
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/7/2022 7:19:26 PM	68569
Surr: DNOP	101	51.1-141		%Rec	1	7/7/2022 7:19:26 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 2:24:00 AM	68517
Surr: BFB	91.1	37.7-212		%Rec	1	7/6/2022 2:24:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 2:24:00 AM	68517
Toluene	ND	0.049		mg/Kg	1	7/6/2022 2:24:00 AM	68517
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 2:24:00 AM	68517
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 2:24:00 AM	68517
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	7/6/2022 2:24:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-82

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:40:00 AM

Lab ID: 2207007-009

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	110	60		mg/Kg	20	7/7/2022 10:35:06 PM	68614
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/7/2022 7:33:35 PM	68569
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/7/2022 7:33:35 PM	68569
Surr: DNOP	97.5	51.1-141		%Rec	1	7/7/2022 7:33:35 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/6/2022 2:44:00 AM	68517
Surr: BFB	90.4	37.7-212		%Rec	1	7/6/2022 2:44:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/6/2022 2:44:00 AM	68517
Toluene	ND	0.047		mg/Kg	1	7/6/2022 2:44:00 AM	68517
Ethylbenzene	ND	0.047		mg/Kg	1	7/6/2022 2:44:00 AM	68517
Xylenes, Total	ND	0.094		mg/Kg	1	7/6/2022 2:44:00 AM	68517
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	7/6/2022 2:44:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-83

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 8:45:00 AM

Lab ID: 2207007-010

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	180	59		mg/Kg	20	7/8/2022 12:53:36 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 7:47:51 PM	68569
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/7/2022 7:47:51 PM	68569
Surr: DNOP	92.0	51.1-141		%Rec	1	7/7/2022 7:47:51 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/6/2022 3:04:00 AM	68517
Surr: BFB	88.9	37.7-212		%Rec	1	7/6/2022 3:04:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/6/2022 3:04:00 AM	68517
Toluene	ND	0.047		mg/Kg	1	7/6/2022 3:04:00 AM	68517
Ethylbenzene	ND	0.047		mg/Kg	1	7/6/2022 3:04:00 AM	68517
Xylenes, Total	ND	0.094		mg/Kg	1	7/6/2022 3:04:00 AM	68517
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	7/6/2022 3:04:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-84

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:00:00 AM

Lab ID: 2207007-011

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	550	60		mg/Kg	20	7/8/2022 1:30:51 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 8:02:03 PM	68569
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/7/2022 8:02:03 PM	68569
Surr: DNOP	90.7	51.1-141		%Rec	1	7/7/2022 8:02:03 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 3:23:00 AM	68517
Surr: BFB	89.5	37.7-212		%Rec	1	7/6/2022 3:23:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 3:23:00 AM	68517
Toluene	ND	0.050		mg/Kg	1	7/6/2022 3:23:00 AM	68517
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 3:23:00 AM	68517
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 3:23:00 AM	68517
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	7/6/2022 3:23:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-85

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:05:00 AM

Lab ID: 2207007-012

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	580	60		mg/Kg	20	7/8/2022 2:32:55 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 8:16:06 PM	68569
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/7/2022 8:16:06 PM	68569
Surr: DNOP	93.0	51.1-141		%Rec	1	7/7/2022 8:16:06 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 3:43:00 AM	68517
Surr: BFB	86.9	37.7-212		%Rec	1	7/6/2022 3:43:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 3:43:00 AM	68517
Toluene	ND	0.049		mg/Kg	1	7/6/2022 3:43:00 AM	68517
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 3:43:00 AM	68517
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 3:43:00 AM	68517
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	7/6/2022 3:43:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-86

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:10:00 AM

Lab ID: 2207007-013

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	330	60		mg/Kg	20	7/8/2022 2:45:19 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 8:30:16 PM	68569
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/7/2022 8:30:16 PM	68569
Surr: DNOP	93.8	51.1-141		%Rec	1	7/7/2022 8:30:16 PM	68569
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 4:03:00 AM	68517
Surr: BFB	87.6	37.7-212		%Rec	1	7/6/2022 4:03:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 4:03:00 AM	68517
Toluene	ND	0.048		mg/Kg	1	7/6/2022 4:03:00 AM	68517
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 4:03:00 AM	68517
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 4:03:00 AM	68517
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	7/6/2022 4:03:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-87

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:15:00 AM

Lab ID: 2207007-014

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	62	60		mg/Kg	20	7/8/2022 2:57:44 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 6:41:35 AM	68570
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/8/2022 6:41:35 AM	68570
Surr: DNOP	95.6	51.1-141		%Rec	1	7/8/2022 6:41:35 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 4:23:00 AM	68517
Surr: BFB	91.0	37.7-212		%Rec	1	7/6/2022 4:23:00 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 4:23:00 AM	68517
Toluene	ND	0.048		mg/Kg	1	7/6/2022 4:23:00 AM	68517
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 4:23:00 AM	68517
Xylenes, Total	ND	0.096		mg/Kg	1	7/6/2022 4:23:00 AM	68517
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	7/6/2022 4:23:00 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-88

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:20:00 AM

Lab ID: 2207007-015

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	180	61		mg/Kg	20	7/8/2022 3:10:08 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 6:55:26 AM	68570
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 6:55:26 AM	68570
Surr: DNOP	94.8	51.1-141		%Rec	1	7/8/2022 6:55:26 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/6/2022 3:29:05 AM	68517
Surr: BFB	89.9	37.7-212		%Rec	1	7/6/2022 3:29:05 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/6/2022 3:29:05 AM	68517
Toluene	ND	0.047		mg/Kg	1	7/6/2022 3:29:05 AM	68517
Ethylbenzene	ND	0.047		mg/Kg	1	7/6/2022 3:29:05 AM	68517
Xylenes, Total	ND	0.094		mg/Kg	1	7/6/2022 3:29:05 AM	68517
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	7/6/2022 3:29:05 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-89

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:25:00 AM

Lab ID: 2207007-016

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	840	60		mg/Kg	20	7/8/2022 3:22:32 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 7:09:31 AM	68570
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 7:09:31 AM	68570
Surr: DNOP	109	51.1-141		%Rec	1	7/8/2022 7:09:31 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 3:52:33 AM	68517
Surr: BFB	97.0	37.7-212		%Rec	1	7/6/2022 3:52:33 AM	68517
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/6/2022 3:52:33 AM	68517
Toluene	ND	0.050		mg/Kg	1	7/6/2022 3:52:33 AM	68517
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 3:52:33 AM	68517
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 3:52:33 AM	68517
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	7/6/2022 3:52:33 AM	68517

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-90

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:30:00 AM

Lab ID: 2207007-017

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	350	60		mg/Kg	20	7/8/2022 3:34:57 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 7:23:31 AM	68570
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 7:23:31 AM	68570
Surr: DNOP	95.6	51.1-141		%Rec	1	7/8/2022 7:23:31 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 9:44:00 AM	68542
Surr: BFB	96.2	37.7-212		%Rec	1	7/6/2022 9:44:00 AM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 9:44:00 AM	68542
Toluene	ND	0.050		mg/Kg	1	7/6/2022 9:44:00 AM	68542
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 9:44:00 AM	68542
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 9:44:00 AM	68542
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	7/6/2022 9:44:00 AM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-91

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:35:00 AM

Lab ID: 2207007-018

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	220	60		mg/Kg	20	7/8/2022 3:47:21 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 7:37:19 AM	68570
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 7:37:19 AM	68570
Surr: DNOP	107	51.1-141		%Rec	1	7/8/2022 7:37:19 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 10:43:00 AM	68542
Surr: BFB	93.1	37.7-212		%Rec	1	7/6/2022 10:43:00 AM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 10:43:00 AM	68542
Toluene	ND	0.049		mg/Kg	1	7/6/2022 10:43:00 AM	68542
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 10:43:00 AM	68542
Xylenes, Total	ND	0.098		mg/Kg	1	7/6/2022 10:43:00 AM	68542
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	7/6/2022 10:43:00 AM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-92

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:40:00 AM

Lab ID: 2207007-019

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	240	60		mg/Kg	20	7/8/2022 3:59:46 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 7:51:26 AM	68570
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2022 7:51:26 AM	68570
Surr: DNOP	102	51.1-141		%Rec	1	7/8/2022 7:51:26 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 11:42:00 AM	68542
Surr: BFB	86.7	37.7-212		%Rec	1	7/6/2022 11:42:00 AM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 11:42:00 AM	68542
Toluene	ND	0.048		mg/Kg	1	7/6/2022 11:42:00 AM	68542
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 11:42:00 AM	68542
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 11:42:00 AM	68542
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	7/6/2022 11:42:00 AM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-93

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 9:45:00 AM

Lab ID: 2207007-020

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	890	60		mg/Kg	20	7/8/2022 4:12:10 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 8:05:17 AM	68570
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 8:05:17 AM	68570
Surr: DNOP	102	51.1-141		%Rec	1	7/8/2022 8:05:17 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 12:02:00 PM	68542
Surr: BFB	92.0	37.7-212		%Rec	1	7/6/2022 12:02:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 12:02:00 PM	68542
Toluene	ND	0.049		mg/Kg	1	7/6/2022 12:02:00 PM	68542
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 12:02:00 PM	68542
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 12:02:00 PM	68542
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	7/6/2022 12:02:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-94

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:00:00 AM

Lab ID: 2207007-021

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	100	60		mg/Kg	20	7/8/2022 4:24:34 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 8:19:22 AM	68570
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2022 8:19:22 AM	68570
Surr: DNOP	96.9	51.1-141		%Rec	1	7/8/2022 8:19:22 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 12:22:00 PM	68542
Surr: BFB	88.9	37.7-212		%Rec	1	7/6/2022 12:22:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 12:22:00 PM	68542
Toluene	ND	0.048		mg/Kg	1	7/6/2022 12:22:00 PM	68542
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 12:22:00 PM	68542
Xylenes, Total	ND	0.095		mg/Kg	1	7/6/2022 12:22:00 PM	68542
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	7/6/2022 12:22:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-95

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:05:00 AM

Lab ID: 2207007-022

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	330	60		mg/Kg	20	7/8/2022 5:01:48 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 8:33:19 AM	68570
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 8:33:19 AM	68570
Surr: DNOP	109	51.1-141		%Rec	1	7/8/2022 8:33:19 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 12:41:00 PM	68542
Surr: BFB	94.6	37.7-212		%Rec	1	7/6/2022 12:41:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 12:41:00 PM	68542
Toluene	ND	0.048		mg/Kg	1	7/6/2022 12:41:00 PM	68542
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 12:41:00 PM	68542
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 12:41:00 PM	68542
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	7/6/2022 12:41:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-96

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:10:00 AM

Lab ID: 2207007-023

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	840	60		mg/Kg	20	7/8/2022 5:14:13 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/8/2022 8:47:16 AM	68570
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	7/8/2022 8:47:16 AM	68570
Surr: DNOP	109	51.1-141		%Rec	1	7/8/2022 8:47:16 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 1:01:00 PM	68542
Surr: BFB	86.4	37.7-212		%Rec	1	7/6/2022 1:01:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 1:01:00 PM	68542
Toluene	ND	0.049		mg/Kg	1	7/6/2022 1:01:00 PM	68542
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 1:01:00 PM	68542
Xylenes, Total	ND	0.098		mg/Kg	1	7/6/2022 1:01:00 PM	68542
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	7/6/2022 1:01:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-97

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:15:00 AM

Lab ID: 2207007-024

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1600	60		mg/Kg	20	7/8/2022 5:26:38 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 9:01:16 AM	68570
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 9:01:16 AM	68570
Surr: DNOP	102	51.1-141		%Rec	1	7/8/2022 9:01:16 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/6/2022 1:21:00 PM	68542
Surr: BFB	91.0	37.7-212		%Rec	1	7/6/2022 1:21:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/6/2022 1:21:00 PM	68542
Toluene	ND	0.046		mg/Kg	1	7/6/2022 1:21:00 PM	68542
Ethylbenzene	ND	0.046		mg/Kg	1	7/6/2022 1:21:00 PM	68542
Xylenes, Total	ND	0.092		mg/Kg	1	7/6/2022 1:21:00 PM	68542
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	7/6/2022 1:21:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-98

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:20:00 AM

Lab ID: 2207007-025

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	930	60		mg/Kg	20	7/8/2022 5:39:03 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 9:15:13 AM	68570
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2022 9:15:13 AM	68570
Surr: DNOP	94.4	51.1-141		%Rec	1	7/8/2022 9:15:13 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 1:41:00 PM	68542
Surr: BFB	91.3	37.7-212		%Rec	1	7/6/2022 1:41:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 1:41:00 PM	68542
Toluene	ND	0.050		mg/Kg	1	7/6/2022 1:41:00 PM	68542
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 1:41:00 PM	68542
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2022 1:41:00 PM	68542
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	7/6/2022 1:41:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-99

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:25:00 AM

Lab ID: 2207007-026

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	500	60		mg/Kg	20	7/8/2022 5:51:28 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 9:29:10 AM	68570
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 9:29:10 AM	68570
Surr: DNOP	96.5	51.1-141		%Rec	1	7/8/2022 9:29:10 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 2:01:00 PM	68542
Surr: BFB	89.5	37.7-212		%Rec	1	7/6/2022 2:01:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 2:01:00 PM	68542
Toluene	ND	0.048		mg/Kg	1	7/6/2022 2:01:00 PM	68542
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 2:01:00 PM	68542
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 2:01:00 PM	68542
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	7/6/2022 2:01:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-100

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:30:00 AM

Lab ID: 2207007-027

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	260	60		mg/Kg	20	7/8/2022 6:03:53 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/8/2022 9:43:14 AM	68570
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/8/2022 9:43:14 AM	68570
Surr: DNOP	91.3	51.1-141		%Rec	1	7/8/2022 9:43:14 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 2:40:00 PM	68542
Surr: BFB	86.4	37.7-212		%Rec	1	7/6/2022 2:40:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 2:40:00 PM	68542
Toluene	ND	0.048		mg/Kg	1	7/6/2022 2:40:00 PM	68542
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 2:40:00 PM	68542
Xylenes, Total	ND	0.095		mg/Kg	1	7/6/2022 2:40:00 PM	68542
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	7/6/2022 2:40:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-101

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:35:00 AM

Lab ID: 2207007-028

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	480	60		mg/Kg	20	7/8/2022 6:16:18 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 9:57:23 AM	68570
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 9:57:23 AM	68570
Surr: DNOP	95.1	51.1-141		%Rec	1	7/8/2022 9:57:23 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/6/2022 3:00:00 PM	68542
Surr: BFB	92.9	37.7-212		%Rec	1	7/6/2022 3:00:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/6/2022 3:00:00 PM	68542
Toluene	ND	0.046		mg/Kg	1	7/6/2022 3:00:00 PM	68542
Ethylbenzene	ND	0.046		mg/Kg	1	7/6/2022 3:00:00 PM	68542
Xylenes, Total	ND	0.092		mg/Kg	1	7/6/2022 3:00:00 PM	68542
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	7/6/2022 3:00:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-102

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:40:00 AM

Lab ID: 2207007-029

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	670	60		mg/Kg	20	7/8/2022 6:28:43 PM	68640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 10:11:28 AM	68570
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 10:11:28 AM	68570
Surr: DNOP	99.8	51.1-141		%Rec	1	7/8/2022 10:11:28 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/6/2022 3:20:00 PM	68542
Surr: BFB	92.4	37.7-212		%Rec	1	7/6/2022 3:20:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/6/2022 3:20:00 PM	68542
Toluene	ND	0.046		mg/Kg	1	7/6/2022 3:20:00 PM	68542
Ethylbenzene	ND	0.046		mg/Kg	1	7/6/2022 3:20:00 PM	68542
Xylenes, Total	ND	0.093		mg/Kg	1	7/6/2022 3:20:00 PM	68542
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	7/6/2022 3:20:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-103

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 10:45:00 AM

Lab ID: 2207007-030

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	970	60		mg/Kg	20	7/8/2022 1:45:51 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 10:25:28 AM	68570
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 10:25:28 AM	68570
Surr: DNOP	93.2	51.1-141		%Rec	1	7/8/2022 10:25:28 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 3:40:00 PM	68542
Surr: BFB	97.4	37.7-212		%Rec	1	7/6/2022 3:40:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 3:40:00 PM	68542
Toluene	ND	0.048		mg/Kg	1	7/6/2022 3:40:00 PM	68542
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 3:40:00 PM	68542
Xylenes, Total	ND	0.096		mg/Kg	1	7/6/2022 3:40:00 PM	68542
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	7/6/2022 3:40:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-104

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:00:00 AM

Lab ID: 2207007-031

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	4900	300		mg/Kg	100	7/12/2022 4:23:46 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 10:39:32 AM	68570
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 10:39:32 AM	68570
Surr: DNOP	93.8	51.1-141		%Rec	1	7/8/2022 10:39:32 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/6/2022 3:59:00 PM	68542
Surr: BFB	98.3	37.7-212		%Rec	1	7/6/2022 3:59:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/6/2022 3:59:00 PM	68542
Toluene	ND	0.047		mg/Kg	1	7/6/2022 3:59:00 PM	68542
Ethylbenzene	ND	0.047		mg/Kg	1	7/6/2022 3:59:00 PM	68542
Xylenes, Total	ND	0.094		mg/Kg	1	7/6/2022 3:59:00 PM	68542
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	7/6/2022 3:59:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-105

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:05:00 AM

Lab ID: 2207007-032

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2100	60		mg/Kg	20	7/8/2022 2:35:14 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/8/2022 11:33:30 AM	68570
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/8/2022 11:33:30 AM	68570
Surr: DNOP	92.7	51.1-141		%Rec	1	7/8/2022 11:33:30 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 4:19:00 PM	68542
Surr: BFB	96.3	37.7-212		%Rec	1	7/6/2022 4:19:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 4:19:00 PM	68542
Toluene	ND	0.049		mg/Kg	1	7/6/2022 4:19:00 PM	68542
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 4:19:00 PM	68542
Xylenes, Total	ND	0.098		mg/Kg	1	7/6/2022 4:19:00 PM	68542
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	7/6/2022 4:19:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-106

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:10:00 AM

Lab ID: 2207007-033

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2600	150		mg/Kg	50	7/12/2022 4:36:11 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 11:47:30 AM	68570
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 11:47:30 AM	68570
Surr: DNOP	100	51.1-141		%Rec	1	7/8/2022 11:47:30 AM	68570
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 4:39:00 PM	68542
Surr: BFB	93.5	37.7-212		%Rec	1	7/6/2022 4:39:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 4:39:00 PM	68542
Toluene	ND	0.048		mg/Kg	1	7/6/2022 4:39:00 PM	68542
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 4:39:00 PM	68542
Xylenes, Total	ND	0.096		mg/Kg	1	7/6/2022 4:39:00 PM	68542
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	7/6/2022 4:39:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-107

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:15:00 AM

Lab ID: 2207007-034

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	4200	150		mg/Kg	50	7/12/2022 4:48:35 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 6:31:19 AM	68571
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2022 6:31:19 AM	68571
Surr: DNOP	108	51.1-141		%Rec	1	7/8/2022 6:31:19 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 4:59:00 PM	68542
Surr: BFB	95.0	37.7-212		%Rec	1	7/6/2022 4:59:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 4:59:00 PM	68542
Toluene	ND	0.050		mg/Kg	1	7/6/2022 4:59:00 PM	68542
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 4:59:00 PM	68542
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 4:59:00 PM	68542
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	7/6/2022 4:59:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-108

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:20:00 AM

Lab ID: 2207007-035

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	4100	150		mg/Kg	50	7/12/2022 5:00:59 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/8/2022 7:42:46 AM	68571
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/8/2022 7:42:46 AM	68571
Surr: DNOP	111	51.1-141		%Rec	1	7/8/2022 7:42:46 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/6/2022 5:19:00 PM	68542
Surr: BFB	93.2	37.7-212		%Rec	1	7/6/2022 5:19:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/6/2022 5:19:00 PM	68542
Toluene	ND	0.046		mg/Kg	1	7/6/2022 5:19:00 PM	68542
Ethylbenzene	ND	0.046		mg/Kg	1	7/6/2022 5:19:00 PM	68542
Xylenes, Total	ND	0.092		mg/Kg	1	7/6/2022 5:19:00 PM	68542
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	7/6/2022 5:19:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-109

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:25:00 AM

Lab ID: 2207007-036

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3200	150		mg/Kg	50	7/11/2022 7:58:32 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 8:06:36 AM	68571
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2022 8:06:36 AM	68571
Surr: DNOP	99.6	51.1-141		%Rec	1	7/8/2022 8:06:36 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/6/2022 5:39:00 PM	68542
Surr: BFB	91.1	37.7-212		%Rec	1	7/6/2022 5:39:00 PM	68542
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 5:39:00 PM	68542
Toluene	ND	0.047		mg/Kg	1	7/6/2022 5:39:00 PM	68542
Ethylbenzene	ND	0.047		mg/Kg	1	7/6/2022 5:39:00 PM	68542
Xylenes, Total	ND	0.094		mg/Kg	1	7/6/2022 5:39:00 PM	68542
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	7/6/2022 5:39:00 PM	68542

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-110

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:30:00 AM

Lab ID: 2207007-037

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	4900	300		mg/Kg	100	7/11/2022 8:10:57 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/8/2022 8:30:30 AM	68571
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/8/2022 8:30:30 AM	68571
Surr: DNOP	113	51.1-141		%Rec	1	7/8/2022 8:30:30 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 7:37:00 PM	68550
Surr: BFB	92.1	37.7-212		%Rec	1	7/6/2022 7:37:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 7:37:00 PM	68550
Toluene	ND	0.049		mg/Kg	1	7/6/2022 7:37:00 PM	68550
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 7:37:00 PM	68550
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 7:37:00 PM	68550
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	7/6/2022 7:37:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-111

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:35:00 AM

Lab ID: 2207007-038

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3100	150		mg/Kg	50	7/11/2022 8:23:22 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 8:54:29 AM	68571
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2022 8:54:29 AM	68571
Surr: DNOP	100	51.1-141		%Rec	1	7/8/2022 8:54:29 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 8:37:00 PM	68550
Surr: BFB	94.9	37.7-212		%Rec	1	7/6/2022 8:37:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 8:37:00 PM	68550
Toluene	ND	0.049		mg/Kg	1	7/6/2022 8:37:00 PM	68550
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 8:37:00 PM	68550
Xylenes, Total	ND	0.098		mg/Kg	1	7/6/2022 8:37:00 PM	68550
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	7/6/2022 8:37:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-112

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:40:00 AM

Lab ID: 2207007-039

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	6300	300		mg/Kg	100	7/11/2022 8:35:46 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 9:18:22 AM	68571
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2022 9:18:22 AM	68571
Surr: DNOP	112	51.1-141		%Rec	1	7/8/2022 9:18:22 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 9:36:00 PM	68550
Surr: BFB	92.4	37.7-212		%Rec	1	7/6/2022 9:36:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 9:36:00 PM	68550
Toluene	ND	0.049		mg/Kg	1	7/6/2022 9:36:00 PM	68550
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 9:36:00 PM	68550
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 9:36:00 PM	68550
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	7/6/2022 9:36:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-113

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:45:00 AM

Lab ID: 2207007-040

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	5500	300		mg/Kg	100	7/11/2022 8:48:10 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 10:29:58 AM	68571
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2022 10:29:58 AM	68571
Surr: DNOP	113	51.1-141		%Rec	1	7/8/2022 10:29:58 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 9:55:00 PM	68550
Surr: BFB	92.1	37.7-212		%Rec	1	7/6/2022 9:55:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 9:55:00 PM	68550
Toluene	ND	0.048		mg/Kg	1	7/6/2022 9:55:00 PM	68550
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 9:55:00 PM	68550
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 9:55:00 PM	68550
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	7/6/2022 9:55:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-114

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:50:00 AM

Lab ID: 2207007-041

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	4600	150		mg/Kg	50	7/11/2022 9:00:35 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 10:53:51 AM	68571
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/8/2022 10:53:51 AM	68571
Surr: DNOP	119	51.1-141		%Rec	1	7/8/2022 10:53:51 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/6/2022 10:15:00 PM	68550
Surr: BFB	96.3	37.7-212		%Rec	1	7/6/2022 10:15:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/6/2022 10:15:00 PM	68550
Toluene	ND	0.047		mg/Kg	1	7/6/2022 10:15:00 PM	68550
Ethylbenzene	ND	0.047		mg/Kg	1	7/6/2022 10:15:00 PM	68550
Xylenes, Total	ND	0.094		mg/Kg	1	7/6/2022 10:15:00 PM	68550
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	7/6/2022 10:15:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-115

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 11:55:00 AM

Lab ID: 2207007-042

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	3200	150		mg/Kg	50	7/11/2022 9:13:00 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 11:17:44 AM	68571
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 11:17:44 AM	68571
Surr: DNOP	107	51.1-141		%Rec	1	7/8/2022 11:17:44 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 10:35:00 PM	68550
Surr: BFB	98.8	37.7-212		%Rec	1	7/6/2022 10:35:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 10:35:00 PM	68550
Toluene	ND	0.049		mg/Kg	1	7/6/2022 10:35:00 PM	68550
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 10:35:00 PM	68550
Xylenes, Total	ND	0.098		mg/Kg	1	7/6/2022 10:35:00 PM	68550
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	7/6/2022 10:35:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-116

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 12:00:00 PM

Lab ID: 2207007-043

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	6100	300		mg/Kg	100	7/11/2022 9:25:25 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 11:41:37 AM	68571
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 11:41:37 AM	68571
Surr: DNOP	103	51.1-141		%Rec	1	7/8/2022 11:41:37 AM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 10:54:00 PM	68550
Surr: BFB	96.4	37.7-212		%Rec	1	7/6/2022 10:54:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 10:54:00 PM	68550
Toluene	ND	0.050		mg/Kg	1	7/6/2022 10:54:00 PM	68550
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 10:54:00 PM	68550
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2022 10:54:00 PM	68550
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	7/6/2022 10:54:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-117

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 12:05:00 PM

Lab ID: 2207007-044

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	4000	150		mg/Kg	50	7/11/2022 9:37:49 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 12:05:40 PM	68571
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/8/2022 12:05:40 PM	68571
Surr: DNOP	95.8	51.1-141		%Rec	1	7/8/2022 12:05:40 PM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 11:14:00 PM	68550
Surr: BFB	99.2	37.7-212		%Rec	1	7/6/2022 11:14:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 11:14:00 PM	68550
Toluene	ND	0.049		mg/Kg	1	7/6/2022 11:14:00 PM	68550
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 11:14:00 PM	68550
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 11:14:00 PM	68550
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	7/6/2022 11:14:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-118

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 12:10:00 PM

Lab ID: 2207007-045

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	4900	300		mg/Kg	100	7/11/2022 9:50:13 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 12:29:30 PM	68571
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 12:29:30 PM	68571
Surr: DNOP	97.1	51.1-141		%Rec	1	7/8/2022 12:29:30 PM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 11:33:00 PM	68550
Surr: BFB	101	37.7-212		%Rec	1	7/6/2022 11:33:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/6/2022 11:33:00 PM	68550
Toluene	ND	0.048		mg/Kg	1	7/6/2022 11:33:00 PM	68550
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 11:33:00 PM	68550
Xylenes, Total	ND	0.096		mg/Kg	1	7/6/2022 11:33:00 PM	68550
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	7/6/2022 11:33:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-119

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 12:15:00 PM

Lab ID: 2207007-046

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	400	60		mg/Kg	20	7/8/2022 6:42:14 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 12:53:23 PM	68571
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 12:53:23 PM	68571
Surr: DNOP	119	51.1-141		%Rec	1	7/8/2022 12:53:23 PM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 11:53:00 PM	68550
Surr: BFB	96.6	37.7-212		%Rec	1	7/6/2022 11:53:00 PM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/6/2022 11:53:00 PM	68550
Toluene	ND	0.049		mg/Kg	1	7/6/2022 11:53:00 PM	68550
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 11:53:00 PM	68550
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 11:53:00 PM	68550
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	7/6/2022 11:53:00 PM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-120

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 12:20:00 PM

Lab ID: 2207007-047

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	230	60		mg/Kg	20	7/8/2022 6:54:35 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 1:17:21 PM	68571
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2022 1:17:21 PM	68571
Surr: DNOP	96.1	51.1-141		%Rec	1	7/8/2022 1:17:21 PM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/7/2022 12:33:00 AM	68550
Surr: BFB	98.3	37.7-212		%Rec	1	7/7/2022 12:33:00 AM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/7/2022 12:33:00 AM	68550
Toluene	ND	0.048		mg/Kg	1	7/7/2022 12:33:00 AM	68550
Ethylbenzene	ND	0.048		mg/Kg	1	7/7/2022 12:33:00 AM	68550
Xylenes, Total	ND	0.096		mg/Kg	1	7/7/2022 12:33:00 AM	68550
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	7/7/2022 12:33:00 AM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-121

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 12:25:00 PM

Lab ID: 2207007-048

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	440	60		mg/Kg	20	7/8/2022 7:06:56 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/8/2022 1:41:15 PM	68571
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/8/2022 1:41:15 PM	68571
Surr: DNOP	98.0	51.1-141		%Rec	1	7/8/2022 1:41:15 PM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/7/2022 12:52:00 AM	68550
Surr: BFB	101	37.7-212		%Rec	1	7/7/2022 12:52:00 AM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/7/2022 12:52:00 AM	68550
Toluene	ND	0.048		mg/Kg	1	7/7/2022 12:52:00 AM	68550
Ethylbenzene	ND	0.048		mg/Kg	1	7/7/2022 12:52:00 AM	68550
Xylenes, Total	ND	0.096		mg/Kg	1	7/7/2022 12:52:00 AM	68550
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	7/7/2022 12:52:00 AM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-122

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 12:30:00 PM

Lab ID: 2207007-049

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	610	60		mg/Kg	20	7/8/2022 7:19:16 PM	68641
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 4:59:48 PM	68571
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 4:59:48 PM	68571
Surr: DNOP	101	51.1-141		%Rec	1	7/8/2022 4:59:48 PM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/7/2022 1:12:00 AM	68550
Surr: BFB	100	37.7-212		%Rec	1	7/7/2022 1:12:00 AM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/7/2022 1:12:00 AM	68550
Toluene	ND	0.046		mg/Kg	1	7/7/2022 1:12:00 AM	68550
Ethylbenzene	ND	0.046		mg/Kg	1	7/7/2022 1:12:00 AM	68550
Xylenes, Total	ND	0.093		mg/Kg	1	7/7/2022 1:12:00 AM	68550
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	7/7/2022 1:12:00 AM	68550

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

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Analytical Report

Lab Order 2207007

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-123

Project: Hornbaker BA Battery

Collection Date: 6/29/2022 12:35:00 PM

Lab ID: 2207007-050

Matrix: SOIL

Received Date: 7/1/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	730	60		mg/Kg	20	7/9/2022 1:54:22 AM	68648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/8/2022 5:23:49 PM	68571
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/8/2022 5:23:49 PM	68571
Surr: DNOP	100	51.1-141		%Rec	1	7/8/2022 5:23:49 PM	68571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 1:31:00 AM	68550
Surr: BFB	98.3	37.7-212		%Rec	1	7/7/2022 1:31:00 AM	68550
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/7/2022 1:31:00 AM	68550
Toluene	ND	0.049		mg/Kg	1	7/7/2022 1:31:00 AM	68550
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 1:31:00 AM	68550
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2022 1:31:00 AM	68550
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	7/7/2022 1:31:00 AM	68550

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

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

WO#: 2207007

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68614	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68614	RunNo: 89334								
Prep Date: 7/7/2022	Analysis Date: 7/7/2022	SeqNo: 3177519 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68614	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68614	RunNo: 89334								
Prep Date: 7/7/2022	Analysis Date: 7/7/2022	SeqNo: 3177520 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			

Sample ID: MB-68640	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68640	RunNo: 89361								
Prep Date: 7/8/2022	Analysis Date: 7/8/2022	SeqNo: 3178808 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68640	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68640	RunNo: 89361								
Prep Date: 7/8/2022	Analysis Date: 7/8/2022	SeqNo: 3178809 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	90	110			

Sample ID: MB-68641	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68641	RunNo: 89362								
Prep Date: 7/8/2022	Analysis Date: 7/8/2022	SeqNo: 3178842 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68641	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68641	RunNo: 89362								
Prep Date: 7/8/2022	Analysis Date: 7/8/2022	SeqNo: 3178843 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	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	

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

WO#: 2207007

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68569	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68569	RunNo: 89303								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176040 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.0	51.1	141			

Sample ID: LCS-68569	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68569	RunNo: 89303								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176041 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	93.5	64.4	127			
Surr: DNOP	4.8		5.000		96.5	51.1	141			

Sample ID: MB-68570	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68570	RunNo: 89303								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176044 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.0	51.1	141			

Sample ID: LCS-68570	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68570	RunNo: 89303								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176045 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.3	64.4	127			
Surr: DNOP	4.7		5.000		93.6	51.1	141			

Sample ID: MB-68571	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68571	RunNo: 89260								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3177123 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		125	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2207007

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-68571	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68571	RunNo: 89260								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3177124 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	107	64.4	127			
Surr: DNOP	5.8		5.000		116	51.1	141			

Sample ID: 2207007-034AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-107	Batch ID: 68571	RunNo: 89260								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3177126 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	13	44.96	0	113	36.1	154			
Surr: DNOP	5.6		4.496		124	51.1	141			

Sample ID: 2207007-034AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-107	Batch ID: 68571	RunNo: 89260								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3177127 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	14	46.30	0	102	36.1	154	7.38	33.9	
Surr: DNOP	5.1		4.630		110	51.1	141	0	0	

Sample ID: 2207007-014AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-87	Batch ID: 68570	RunNo: 89303								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3177389 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	14	45.91	0	89.5	36.1	154			
Surr: DNOP	4.6		4.591		101	51.1	141			

Sample ID: 2207007-014AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-87	Batch ID: 68570	RunNo: 89303								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3177392 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	45.45	0	95.3	36.1	154	5.26	33.9	
Surr: DNOP	4.6		4.545		102	51.1	141	0	0	

Qualifiers:

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

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

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

WO#: 2207007

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: ics-68517	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 68517				RunNo: 89241					
Prep Date: 7/1/2022	Analysis Date: 7/5/2022				SeqNo: 3172411		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	72.3	137			
Surr: BFB	1900		1000		185	37.7	212			

Sample ID: mb-68517	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 68517				RunNo: 89241					
Prep Date: 7/1/2022	Analysis Date: 7/5/2022				SeqNo: 3172412		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		89.5	37.7	212			

Sample ID: ics-68542	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 68542				RunNo: 89287					
Prep Date: 7/5/2022	Analysis Date: 7/6/2022				SeqNo: 3175325		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	102	72.3	137			
Surr: BFB	2000		1000		196	37.7	212			

Sample ID: mb-68542	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 68542				RunNo: 89287					
Prep Date: 7/5/2022	Analysis Date: 7/6/2022				SeqNo: 3175326		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		95.1	37.7	212			

Sample ID: 2207007-017ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH-90	Batch ID: 68542				RunNo: 89287					
Prep Date: 7/5/2022	Analysis Date: 7/6/2022				SeqNo: 3175328		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.70	0	120	70	130			
Surr: BFB	2200		988.1		228	37.7	212			S

Sample ID: 2207007-017amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH-90	Batch ID: 68542				RunNo: 89287					
Prep Date: 7/5/2022	Analysis Date: 7/6/2022				SeqNo: 3175329		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 2207007

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2207007-017amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-90	Batch ID: 68542	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175329 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.30	0	120	70	130	1.67	20	
Surr: BFB	2200		971.8		228	37.7	212	0	0	S

Sample ID: lcs-68550	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68550	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175349 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	102	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: mb-68550	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68550	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175350 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	880		1000		88.1	37.7	212			

Sample ID: 2207007-037ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-110	Batch ID: 68550	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175352 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.9	24.70	0	126	70	130			
Surr: BFB	2200		988.1		226	37.7	212			S

Sample ID: 2207007-037amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-110	Batch ID: 68550	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175353 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	24.25	0	129	70	130	0.456	20	
Surr: BFB	2300		969.9		233	37.7	212	0	0	S

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#: 2207007

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: ics-68517	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68517		RunNo: 89241							
Prep Date: 7/1/2022	Analysis Date: 7/5/2022		SeqNo: 3172594		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	82.4	80	120			
Toluene	0.84	0.050	1.000	0	84.0	80	120			
Ethylbenzene	0.83	0.050	1.000	0	82.7	80	120			
Xylenes, Total	2.5	0.10	3.000	0	81.8	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.6	70	130			

Sample ID: mb-68517	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68517		RunNo: 89241							
Prep Date: 7/1/2022	Analysis Date: 7/5/2022		SeqNo: 3172595		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	0.82		1.000		81.5	70	130			

Sample ID: ics-68542	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68542		RunNo: 89287							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3175400		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	0.93	0.050	1.000	0	92.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: mb-68542	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68542		RunNo: 89287							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3175401		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	0.90		1.000		89.5	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#: 2207007

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2207007-018ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-91	Batch ID: 68542	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175404 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9728	0	106	68.8	120			
Toluene	1.1	0.049	0.9728	0	108	73.6	124			
Ethylbenzene	1.1	0.049	0.9728	0	108	72.7	129			
Xylenes, Total	3.1	0.097	2.918	0	107	75.7	126			
Surr: 4-Bromofluorobenzene	0.83		0.9728		85.4	70	130			

Sample ID: 2207007-018amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-91	Batch ID: 68542	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175405 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9814	0	95.8	68.8	120	8.84	20	
Toluene	0.96	0.049	0.9814	0	98.2	73.6	124	8.94	20	
Ethylbenzene	0.96	0.049	0.9814	0	97.8	72.7	129	9.38	20	
Xylenes, Total	2.8	0.098	2.944	0	96.4	75.7	126	9.93	20	
Surr: 4-Bromofluorobenzene	0.82		0.9814		83.4	70	130	0	0	

Sample ID: Ics-68550	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68550	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175424 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.8	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.2	70	130			

Sample ID: mb-68550	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68550	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175425 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	0.83		1.000		82.6	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#: 2207007

14-Jul-22

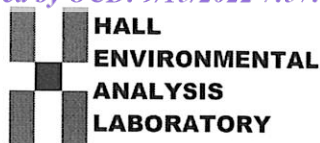
Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2207007-038ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-111	Batch ID: 68550		RunNo: 89287							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3175428		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9980	0	104	68.8	120			
Toluene	1.1	0.050	0.9980	0	109	73.6	124			
Ethylbenzene	1.1	0.050	0.9980	0	111	72.7	129			
Xylenes, Total	3.3	0.10	2.994	0	111	75.7	126			
Surr: 4-Bromofluorobenzene	0.91		0.9980		91.1	70	130			

Sample ID: 2207007-038amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-111	Batch ID: 68550		RunNo: 89287							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3175429		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9911	0	107	68.8	120	1.96	20	
Toluene	1.1	0.050	0.9911	0	111	73.6	124	0.515	20	
Ethylbenzene	1.1	0.050	0.9911	0	115	72.7	129	2.51	20	
Xylenes, Total	3.4	0.099	2.973	0	115	75.7	126	3.13	20	
Surr: 4-Bromofluorobenzene	0.90		0.9911		90.8	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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2207007

RcptNo: 1

Received By: Juan Rojas

7/1/2022 6:50:00 AM

Completed By: Sean Livingston

7/1/2022 8:20:37 AM

Reviewed By:

m 7/1/22

Juan Rojas

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: [Signature]

7-1-22

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	3.2	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#: Beckv.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:

Humboldt BA Betty

Project #:

1728980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 3-36-1232

Date Time Matrix Sample Name

06/29/22 0800 S BH-74

0805 BH-75

0810 BH-76

0815 BH-77

0820 BH-78

0825 BH-79

0830 BH-80

0835 BH-81

0840 BH-82

0845 BH-83

0900 BH-84

0905 BH-85

Date Time

06/30/22 0800

Date Time

06/30/22 1900

Relinquished by:

Zach Comino

Relinquished by:

Zach Comino

Received by:

Zach Comino

Received by:

Zach Comino

Date

6/30/22

Date

7/1/22

Time

800

Time

6:50

Via:

Via:

Via:

Via:

Remarks: Please email: Chase_Settle@eogresources.com;

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

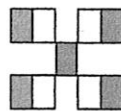
Matthew.Laughlin@ghd.com;

Amber_Griffin@eogresources.com; Along with Becky

Haskell listed above.

Direct Bill to EOG-Chase Settle

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

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

BTX / MTBE / TMBs (8021)

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

021

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:

Hawkins NE

BA Betty

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CP): 33.0-33.2

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

08/22/2020 1020 S BH-98

1025 BH-97

1070 BH-100

1035 BH-101

1040 BH-102

1045 BH-103

1000 BH-104

1105 BH-105

1110 BH-106

1115 BH-107

1120 BH-108

1125 BH-109

Date Time

Relinquished by:

08/22/2020 0800 Zach Comino

Date Time

Relinquished by:

08/22/2020 1900

Received by:

Via:

Date Time

08/22/2020 0800

Received by:

Via:

Date Time

08/22/2020 0800

Date Time

Date Time

Date Time

Date Time

Date Time

Date Time

Date Time

Date Time

Date Time

Date Time

Date Time

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 300

Remarks: Please email: Chase_Settle@eogresources.com;

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

Matthew.Laughlin@ghd.com;

Amber_Griffin@eogresources.com: Along with Becky

Haskell listed above.

Direct Bill to EOG-Chase Settle

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



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

July 14, 2022

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

RE: Hornbaker BA Battery

OrderNo.: 2207065

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 39 sample(s) on 7/2/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-124

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:00:00 AM

Lab ID: 2207065-001

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1700	60		mg/Kg	20	7/10/2022 9:59:42 PM	68665
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/9/2022 4:05:03 PM	68601
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2022 4:05:03 PM	68601
Surr: DNOP	101	51.1-141		%Rec	1	7/9/2022 4:05:03 PM	68601
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2022 12:37:00 AM	68585
Surr: BFB	92.5	37.7-212		%Rec	1	7/8/2022 12:37:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 12:37:00 AM	68585
Toluene	ND	0.050		mg/Kg	1	7/8/2022 12:37:00 AM	68585
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2022 12:37:00 AM	68585
Xylenes, Total	ND	0.099		mg/Kg	1	7/8/2022 12:37:00 AM	68585
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	7/8/2022 12:37:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-125

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:05:00 AM

Lab ID: 2207065-002

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	5000	300		mg/Kg	100	7/11/2022 11:42:06 AM	68665
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/9/2022 4:28:59 PM	68601
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2022 4:28:59 PM	68601
Surr: DNOP	102	51.1-141		%Rec	1	7/9/2022 4:28:59 PM	68601
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 12:56:00 AM	68585
Surr: BFB	87.3	37.7-212		%Rec	1	7/8/2022 12:56:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 12:56:00 AM	68585
Toluene	ND	0.049		mg/Kg	1	7/8/2022 12:56:00 AM	68585
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 12:56:00 AM	68585
Xylenes, Total	ND	0.098		mg/Kg	1	7/8/2022 12:56:00 AM	68585
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	7/8/2022 12:56:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-126

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:10:00 AM

Lab ID: 2207065-003

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	5900	300		mg/Kg	100	7/11/2022 11:54:31 AM	68665
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	20	14		mg/Kg	1	7/9/2022 4:52:50 PM	68601
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 4:52:50 PM	68601
Surr: DNOP	99.4	51.1-141		%Rec	1	7/9/2022 4:52:50 PM	68601
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2022 1:16:00 AM	68585
Surr: BFB	91.1	37.7-212		%Rec	1	7/8/2022 1:16:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 1:16:00 AM	68585
Toluene	ND	0.050		mg/Kg	1	7/8/2022 1:16:00 AM	68585
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2022 1:16:00 AM	68585
Xylenes, Total	ND	0.099		mg/Kg	1	7/8/2022 1:16:00 AM	68585
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	7/8/2022 1:16:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-127

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:15:00 AM

Lab ID: 2207065-004

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	4900	150		mg/Kg	50	7/12/2022 10:11:27 AM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	27	15		mg/Kg	1	7/7/2022 1:37:38 PM	68588
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/7/2022 1:37:38 PM	68588
Surr: DNOP	84.8	51.1-141		%Rec	1	7/7/2022 1:37:38 PM	68588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 1:36:00 AM	68585
Surr: BFB	88.2	37.7-212		%Rec	1	7/8/2022 1:36:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 1:36:00 AM	68585
Toluene	ND	0.049		mg/Kg	1	7/8/2022 1:36:00 AM	68585
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 1:36:00 AM	68585
Xylenes, Total	ND	0.098		mg/Kg	1	7/8/2022 1:36:00 AM	68585
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	7/8/2022 1:36:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-128

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:20:00 AM

Lab ID: 2207065-005

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1600	60		mg/Kg	20	7/11/2022 12:16:36 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 2:02:39 PM	68588
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/7/2022 2:02:39 PM	68588
Surr: DNOP	79.1	51.1-141		%Rec	1	7/7/2022 2:02:39 PM	68588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 1:55:00 AM	68585
Surr: BFB	86.7	37.7-212		%Rec	1	7/8/2022 1:55:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 1:55:00 AM	68585
Toluene	ND	0.049		mg/Kg	1	7/8/2022 1:55:00 AM	68585
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 1:55:00 AM	68585
Xylenes, Total	ND	0.097		mg/Kg	1	7/8/2022 1:55:00 AM	68585
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	7/8/2022 1:55:00 AM	68585

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

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

Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-129

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:25:00 AM

Lab ID: 2207065-006

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	91	60		mg/Kg	20	7/11/2022 12:29:00 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 2:27:11 PM	68588
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/7/2022 2:27:11 PM	68588
Surr: DNOP	95.8	51.1-141		%Rec	1	7/7/2022 2:27:11 PM	68588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 2:15:00 AM	68585
Surr: BFB	88.4	37.7-212		%Rec	1	7/8/2022 2:15:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 2:15:00 AM	68585
Toluene	ND	0.049		mg/Kg	1	7/8/2022 2:15:00 AM	68585
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 2:15:00 AM	68585
Xylenes, Total	ND	0.098		mg/Kg	1	7/8/2022 2:15:00 AM	68585
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	7/8/2022 2:15:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-130

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:30:00 AM

Lab ID: 2207065-007

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2700	150		mg/Kg	50	7/12/2022 10:23:51 AM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/7/2022 2:51:45 PM	68588
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/7/2022 2:51:45 PM	68588
Surr: DNOP	83.7	51.1-141		%Rec	1	7/7/2022 2:51:45 PM	68588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 2:35:00 AM	68585
Surr: BFB	88.6	37.7-212		%Rec	1	7/8/2022 2:35:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 2:35:00 AM	68585
Toluene	ND	0.049		mg/Kg	1	7/8/2022 2:35:00 AM	68585
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 2:35:00 AM	68585
Xylenes, Total	ND	0.097		mg/Kg	1	7/8/2022 2:35:00 AM	68585
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	7/8/2022 2:35:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-131

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:35:00 AM

Lab ID: 2207065-008

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	61		mg/Kg	20	7/11/2022 2:08:15 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 3:16:21 PM	68588
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/7/2022 3:16:21 PM	68588
Surr: DNOP	88.7	51.1-141		%Rec	1	7/7/2022 3:16:21 PM	68588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 2:54:00 AM	68585
Surr: BFB	89.1	37.7-212		%Rec	1	7/8/2022 2:54:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 2:54:00 AM	68585
Toluene	ND	0.049		mg/Kg	1	7/8/2022 2:54:00 AM	68585
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 2:54:00 AM	68585
Xylenes, Total	ND	0.097		mg/Kg	1	7/8/2022 2:54:00 AM	68585
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	7/8/2022 2:54:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-132

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:40:00 AM

Lab ID: 2207065-009

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1200	61		mg/Kg	20	7/11/2022 2:20:39 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/7/2022 3:40:56 PM	68588
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/7/2022 3:40:56 PM	68588
Surr: DNOP	86.0	51.1-141		%Rec	1	7/7/2022 3:40:56 PM	68588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2022 3:14:00 AM	68585
Surr: BFB	89.6	37.7-212		%Rec	1	7/8/2022 3:14:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 3:14:00 AM	68585
Toluene	ND	0.050		mg/Kg	1	7/8/2022 3:14:00 AM	68585
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2022 3:14:00 AM	68585
Xylenes, Total	ND	0.099		mg/Kg	1	7/8/2022 3:14:00 AM	68585
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	7/8/2022 3:14:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-133

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 8:45:00 AM

Lab ID: 2207065-010

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	110	60		mg/Kg	20	7/11/2022 2:33:03 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/7/2022 4:05:35 PM	68588
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/7/2022 4:05:35 PM	68588
Surr: DNOP	95.1	51.1-141		%Rec	1	7/7/2022 4:05:35 PM	68588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2022 3:34:00 AM	68585
Surr: BFB	91.1	37.7-212		%Rec	1	7/8/2022 3:34:00 AM	68585
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 3:34:00 AM	68585
Toluene	ND	0.050		mg/Kg	1	7/8/2022 3:34:00 AM	68585
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2022 3:34:00 AM	68585
Xylenes, Total	ND	0.099		mg/Kg	1	7/8/2022 3:34:00 AM	68585
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	7/8/2022 3:34:00 AM	68585

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-134

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:00:00 AM

Lab ID: 2207065-011

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	5500	300		mg/Kg	100	7/12/2022 10:36:15 AM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 12:51:44 PM	68624
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2022 12:51:44 PM	68624
Surr: DNOP	113	51.1-141		%Rec	1	7/8/2022 12:51:44 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 2:06:08 AM	68595
Surr: BFB	93.6	37.7-212		%Rec	1	7/8/2022 2:06:08 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/8/2022 2:06:08 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/8/2022 2:06:08 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 2:06:08 AM	68595
Xylenes, Total	ND	0.098		mg/Kg	1	7/8/2022 2:06:08 AM	68595
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	7/8/2022 2:06:08 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-135

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:05:00 AM

Lab ID: 2207065-012

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1500	60		mg/Kg	20	7/11/2022 2:57:51 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 2:05:04 PM	68624
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 2:05:04 PM	68624
Surr: DNOP	105	51.1-141		%Rec	1	7/8/2022 2:05:04 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 3:16:24 AM	68595
Surr: BFB	94.0	37.7-212		%Rec	1	7/8/2022 3:16:24 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/8/2022 3:16:24 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/8/2022 3:16:24 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 3:16:24 AM	68595
Xylenes, Total	ND	0.097		mg/Kg	1	7/8/2022 3:16:24 AM	68595
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	7/8/2022 3:16:24 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-136

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:10:00 AM

Lab ID: 2207065-013

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	4800	300		mg/Kg	100	7/12/2022 10:48:39 AM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 2:29:31 PM	68624
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 2:29:31 PM	68624
Surr: DNOP	110	51.1-141		%Rec	1	7/8/2022 2:29:31 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/8/2022 3:39:48 AM	68595
Surr: BFB	91.9	37.7-212		%Rec	1	7/8/2022 3:39:48 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/8/2022 3:39:48 AM	68595
Toluene	ND	0.048		mg/Kg	1	7/8/2022 3:39:48 AM	68595
Ethylbenzene	ND	0.048		mg/Kg	1	7/8/2022 3:39:48 AM	68595
Xylenes, Total	ND	0.096		mg/Kg	1	7/8/2022 3:39:48 AM	68595
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	7/8/2022 3:39:48 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-137

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:15:00 AM

Lab ID: 2207065-014

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	320	60		mg/Kg	20	7/11/2022 3:22:40 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 2:53:51 PM	68624
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 2:53:51 PM	68624
Surr: DNOP	99.8	51.1-141		%Rec	1	7/8/2022 2:53:51 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/8/2022 4:03:15 AM	68595
Surr: BFB	93.5	37.7-212		%Rec	1	7/8/2022 4:03:15 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/8/2022 4:03:15 AM	68595
Toluene	ND	0.047		mg/Kg	1	7/8/2022 4:03:15 AM	68595
Ethylbenzene	ND	0.047		mg/Kg	1	7/8/2022 4:03:15 AM	68595
Xylenes, Total	ND	0.093		mg/Kg	1	7/8/2022 4:03:15 AM	68595
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	7/8/2022 4:03:15 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-138

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:20:00 AM

Lab ID: 2207065-015

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	250	60		mg/Kg	20	7/11/2022 3:35:04 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 3:18:19 PM	68624
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 3:18:19 PM	68624
Surr: DNOP	104	51.1-141		%Rec	1	7/8/2022 3:18:19 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 4:26:40 AM	68595
Surr: BFB	91.6	37.7-212		%Rec	1	7/8/2022 4:26:40 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/8/2022 4:26:40 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/8/2022 4:26:40 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 4:26:40 AM	68595
Xylenes, Total	ND	0.098		mg/Kg	1	7/8/2022 4:26:40 AM	68595
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	7/8/2022 4:26:40 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-139

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:25:00 AM

Lab ID: 2207065-016

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1200	60		mg/Kg	20	7/11/2022 3:47:28 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 3:42:45 PM	68624
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 3:42:45 PM	68624
Surr: DNOP	110	51.1-141		%Rec	1	7/8/2022 3:42:45 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 4:50:18 AM	68595
Surr: BFB	92.1	37.7-212		%Rec	1	7/8/2022 4:50:18 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/8/2022 4:50:18 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/8/2022 4:50:18 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 4:50:18 AM	68595
Xylenes, Total	ND	0.099		mg/Kg	1	7/8/2022 4:50:18 AM	68595
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	7/8/2022 4:50:18 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-140

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:30:00 AM

Lab ID: 2207065-017

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	250	60		mg/Kg	20	7/11/2022 3:59:52 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 4:07:16 PM	68624
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2022 4:07:16 PM	68624
Surr: DNOP	89.6	51.1-141		%Rec	1	7/8/2022 4:07:16 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2022 4:43:00 AM	68595
Surr: BFB	87.9	37.7-212		%Rec	1	7/9/2022 4:43:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 4:43:00 AM	68595
Toluene	ND	0.048		mg/Kg	1	7/9/2022 4:43:00 AM	68595
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2022 4:43:00 AM	68595
Xylenes, Total	ND	0.097		mg/Kg	1	7/9/2022 4:43:00 AM	68595
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	7/9/2022 4:43:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-141

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:35:00 AM

Lab ID: 2207065-018

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	200	60		mg/Kg	20	7/11/2022 4:37:06 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 4:31:44 PM	68624
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 4:31:44 PM	68624
Surr: DNOP	121	51.1-141		%Rec	1	7/8/2022 4:31:44 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2022 5:03:00 AM	68595
Surr: BFB	91.9	37.7-212		%Rec	1	7/9/2022 5:03:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 5:03:00 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/9/2022 5:03:00 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2022 5:03:00 AM	68595
Xylenes, Total	ND	0.098		mg/Kg	1	7/9/2022 5:03:00 AM	68595
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	7/9/2022 5:03:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-142

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:40:00 AM

Lab ID: 2207065-019

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	530	60		mg/Kg	20	7/11/2022 4:49:30 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 4:56:20 PM	68624
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 4:56:20 PM	68624
Surr: DNOP	96.9	51.1-141		%Rec	1	7/8/2022 4:56:20 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2022 5:23:00 AM	68595
Surr: BFB	89.4	37.7-212		%Rec	1	7/9/2022 5:23:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 5:23:00 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/9/2022 5:23:00 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2022 5:23:00 AM	68595
Xylenes, Total	ND	0.098		mg/Kg	1	7/9/2022 5:23:00 AM	68595
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	7/9/2022 5:23:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-143

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 9:45:00 AM

Lab ID: 2207065-020

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	980	60		mg/Kg	20	7/11/2022 5:01:54 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 5:20:49 PM	68624
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 5:20:49 PM	68624
Surr: DNOP	119	51.1-141		%Rec	1	7/8/2022 5:20:49 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/9/2022 5:42:00 AM	68595
Surr: BFB	96.8	37.7-212		%Rec	1	7/9/2022 5:42:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 5:42:00 AM	68595
Toluene	ND	0.047		mg/Kg	1	7/9/2022 5:42:00 AM	68595
Ethylbenzene	ND	0.047		mg/Kg	1	7/9/2022 5:42:00 AM	68595
Xylenes, Total	ND	0.095		mg/Kg	1	7/9/2022 5:42:00 AM	68595
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	7/9/2022 5:42:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-144

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:00:00 AM

Lab ID: 2207065-021

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	300	60		mg/Kg	20	7/11/2022 5:14:18 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 5:45:31 PM	68624
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 5:45:31 PM	68624
Surr: DNOP	117	51.1-141		%Rec	1	7/8/2022 5:45:31 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2022 6:02:00 AM	68595
Surr: BFB	90.8	37.7-212		%Rec	1	7/9/2022 6:02:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 6:02:00 AM	68595
Toluene	ND	0.048		mg/Kg	1	7/9/2022 6:02:00 AM	68595
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2022 6:02:00 AM	68595
Xylenes, Total	ND	0.095		mg/Kg	1	7/9/2022 6:02:00 AM	68595
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	7/9/2022 6:02:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-145

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:05:00 AM

Lab ID: 2207065-022

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	510	60		mg/Kg	20	7/11/2022 5:26:42 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 6:10:03 PM	68624
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 6:10:03 PM	68624
Surr: DNOP	107	51.1-141		%Rec	1	7/8/2022 6:10:03 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/9/2022 6:22:00 AM	68595
Surr: BFB	89.3	37.7-212		%Rec	1	7/9/2022 6:22:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/9/2022 6:22:00 AM	68595
Toluene	ND	0.050		mg/Kg	1	7/9/2022 6:22:00 AM	68595
Ethylbenzene	ND	0.050		mg/Kg	1	7/9/2022 6:22:00 AM	68595
Xylenes, Total	ND	0.099		mg/Kg	1	7/9/2022 6:22:00 AM	68595
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	7/9/2022 6:22:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-146

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:10:00 AM

Lab ID: 2207065-023

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1500	60		mg/Kg	20	7/11/2022 5:39:06 PM	68676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 6:34:42 PM	68624
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 6:34:42 PM	68624
Surr: DNOP	102	51.1-141		%Rec	1	7/8/2022 6:34:42 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2022 6:41:00 AM	68595
Surr: BFB	88.0	37.7-212		%Rec	1	7/9/2022 6:41:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 6:41:00 AM	68595
Toluene	ND	0.048		mg/Kg	1	7/9/2022 6:41:00 AM	68595
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2022 6:41:00 AM	68595
Xylenes, Total	ND	0.096		mg/Kg	1	7/9/2022 6:41:00 AM	68595
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	7/9/2022 6:41:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-147

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:15:00 AM

Lab ID: 2207065-024

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	550	60		mg/Kg	20	7/11/2022 12:56:34 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 6:59:14 PM	68624
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 6:59:14 PM	68624
Surr: DNOP	75.3	51.1-141		%Rec	1	7/8/2022 6:59:14 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/9/2022 7:01:00 AM	68595
Surr: BFB	88.2	37.7-212		%Rec	1	7/9/2022 7:01:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/9/2022 7:01:00 AM	68595
Toluene	ND	0.047		mg/Kg	1	7/9/2022 7:01:00 AM	68595
Ethylbenzene	ND	0.047		mg/Kg	1	7/9/2022 7:01:00 AM	68595
Xylenes, Total	ND	0.093		mg/Kg	1	7/9/2022 7:01:00 AM	68595
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	7/9/2022 7:01:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-148

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:20:00 AM

Lab ID: 2207065-025

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	5300	300		mg/Kg	100	7/12/2022 11:01:04 AM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 7:24:00 PM	68624
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2022 7:24:00 PM	68624
Surr: DNOP	105	51.1-141		%Rec	1	7/8/2022 7:24:00 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2022 7:21:00 AM	68595
Surr: BFB	85.6	37.7-212		%Rec	1	7/9/2022 7:21:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/9/2022 7:21:00 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/9/2022 7:21:00 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2022 7:21:00 AM	68595
Xylenes, Total	ND	0.098		mg/Kg	1	7/9/2022 7:21:00 AM	68595
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	7/9/2022 7:21:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-149

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:25:00 AM

Lab ID: 2207065-026

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2000	60		mg/Kg	20	7/11/2022 1:21:22 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 7:48:33 PM	68624
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 7:48:33 PM	68624
Surr: DNOP	74.1	51.1-141		%Rec	1	7/8/2022 7:48:33 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2022 8:00:00 AM	68595
Surr: BFB	94.5	37.7-212		%Rec	1	7/9/2022 8:00:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 8:00:00 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/9/2022 8:00:00 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2022 8:00:00 AM	68595
Xylenes, Total	ND	0.098		mg/Kg	1	7/9/2022 8:00:00 AM	68595
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	7/9/2022 8:00:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-150

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:30:00 AM

Lab ID: 2207065-027

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	11000	600		mg/Kg	200	7/12/2022 11:13:29 AM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 8:13:11 PM	68624
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 8:13:11 PM	68624
Surr: DNOP	93.6	51.1-141		%Rec	1	7/8/2022 8:13:11 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2022 8:20:00 AM	68595
Surr: BFB	89.4	37.7-212		%Rec	1	7/9/2022 8:20:00 AM	68595
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 8:20:00 AM	68595
Toluene	ND	0.049		mg/Kg	1	7/9/2022 8:20:00 AM	68595
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2022 8:20:00 AM	68595
Xylenes, Total	ND	0.098		mg/Kg	1	7/9/2022 8:20:00 AM	68595
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	7/9/2022 8:20:00 AM	68595

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-151

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:35:00 AM

Lab ID: 2207065-028

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	4400	300		mg/Kg	100	7/12/2022 11:25:54 AM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 8:37:41 PM	68624
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 8:37:41 PM	68624
Surr: DNOP	110	51.1-141		%Rec	1	7/8/2022 8:37:41 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/8/2022 9:15:00 AM	68617
Surr: BFB	91.6	37.7-212		%Rec	1	7/8/2022 9:15:00 AM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 9:15:00 AM	68617
Toluene	ND	0.048		mg/Kg	1	7/8/2022 9:15:00 AM	68617
Ethylbenzene	ND	0.048		mg/Kg	1	7/8/2022 9:15:00 AM	68617
Xylenes, Total	ND	0.097		mg/Kg	1	7/8/2022 9:15:00 AM	68617
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	7/8/2022 9:15:00 AM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-152

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:40:00 AM

Lab ID: 2207065-029

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	6600	300		mg/Kg	100	7/12/2022 11:38:18 AM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 9:02:23 PM	68624
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2022 9:02:23 PM	68624
Surr: DNOP	100	51.1-141		%Rec	1	7/8/2022 9:02:23 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/8/2022 10:14:00 AM	68617
Surr: BFB	95.2	37.7-212		%Rec	1	7/8/2022 10:14:00 AM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/8/2022 10:14:00 AM	68617
Toluene	ND	0.047		mg/Kg	1	7/8/2022 10:14:00 AM	68617
Ethylbenzene	ND	0.047		mg/Kg	1	7/8/2022 10:14:00 AM	68617
Xylenes, Total	ND	0.094		mg/Kg	1	7/8/2022 10:14:00 AM	68617
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	7/8/2022 10:14:00 AM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-153

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 10:45:00 AM

Lab ID: 2207065-030

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2100	150		mg/Kg	50	7/12/2022 11:50:43 AM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 9:27:00 PM	68624
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 9:27:00 PM	68624
Surr: DNOP	115	51.1-141		%Rec	1	7/8/2022 9:27:00 PM	68624
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 11:13:00 AM	68617
Surr: BFB	90.1	37.7-212		%Rec	1	7/8/2022 11:13:00 AM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 11:13:00 AM	68617
Toluene	ND	0.049		mg/Kg	1	7/8/2022 11:13:00 AM	68617
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 11:13:00 AM	68617
Xylenes, Total	ND	0.098		mg/Kg	1	7/8/2022 11:13:00 AM	68617
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	7/8/2022 11:13:00 AM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-154

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:00:00 AM

Lab ID: 2207065-031

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	7000	300		mg/Kg	100	7/12/2022 12:03:08 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 9:48:15 PM	68627
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 9:48:15 PM	68627
Surr: DNOP	96.5	51.1-141		%Rec	1	7/8/2022 9:48:15 PM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2022 11:32:00 AM	68617
Surr: BFB	86.5	37.7-212		%Rec	1	7/8/2022 11:32:00 AM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 11:32:00 AM	68617
Toluene	ND	0.050		mg/Kg	1	7/8/2022 11:32:00 AM	68617
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2022 11:32:00 AM	68617
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2022 11:32:00 AM	68617
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	7/8/2022 11:32:00 AM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-155

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:05:00 AM

Lab ID: 2207065-032

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	11000	300		mg/Kg	100	7/12/2022 12:40:21 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 10:30:55 PM	68627
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 10:30:55 PM	68627
Surr: DNOP	83.3	51.1-141		%Rec	1	7/8/2022 10:30:55 PM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 11:52:00 AM	68617
Surr: BFB	89.4	37.7-212		%Rec	1	7/8/2022 11:52:00 AM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 11:52:00 AM	68617
Toluene	ND	0.049		mg/Kg	1	7/8/2022 11:52:00 AM	68617
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 11:52:00 AM	68617
Xylenes, Total	ND	0.099		mg/Kg	1	7/8/2022 11:52:00 AM	68617
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	7/8/2022 11:52:00 AM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-156

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:10:00 AM

Lab ID: 2207065-033

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	5700	300		mg/Kg	100	7/12/2022 1:17:35 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/8/2022 10:45:08 PM	68627
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 10:45:08 PM	68627
Surr: DNOP	99.1	51.1-141		%Rec	1	7/8/2022 10:45:08 PM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/8/2022 12:12:00 PM	68617
Surr: BFB	89.6	37.7-212		%Rec	1	7/8/2022 12:12:00 PM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 12:12:00 PM	68617
Toluene	ND	0.048		mg/Kg	1	7/8/2022 12:12:00 PM	68617
Ethylbenzene	ND	0.048		mg/Kg	1	7/8/2022 12:12:00 PM	68617
Xylenes, Total	ND	0.095		mg/Kg	1	7/8/2022 12:12:00 PM	68617
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	7/8/2022 12:12:00 PM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-157

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:15:00 AM

Lab ID: 2207065-034

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	10000	600		mg/Kg	200	7/12/2022 1:54:49 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 10:59:43 PM	68627
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 10:59:43 PM	68627
Surr: DNOP	82.8	51.1-141		%Rec	1	7/8/2022 10:59:43 PM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/8/2022 12:32:00 PM	68617
Surr: BFB	93.2	37.7-212		%Rec	1	7/8/2022 12:32:00 PM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 12:32:00 PM	68617
Toluene	ND	0.048		mg/Kg	1	7/8/2022 12:32:00 PM	68617
Ethylbenzene	ND	0.048		mg/Kg	1	7/8/2022 12:32:00 PM	68617
Xylenes, Total	ND	0.096		mg/Kg	1	7/8/2022 12:32:00 PM	68617
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	7/8/2022 12:32:00 PM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-14A

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:20:00 AM

Lab ID: 2207065-035

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	8900	300		mg/Kg	100	7/12/2022 2:07:13 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 11:13:55 PM	68627
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 11:13:55 PM	68627
Surr: DNOP	95.4	51.1-141		%Rec	1	7/8/2022 11:13:55 PM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2022 12:52:00 PM	68617
Surr: BFB	90.6	37.7-212		%Rec	1	7/8/2022 12:52:00 PM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 12:52:00 PM	68617
Toluene	ND	0.050		mg/Kg	1	7/8/2022 12:52:00 PM	68617
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2022 12:52:00 PM	68617
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2022 12:52:00 PM	68617
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	7/8/2022 12:52:00 PM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-20A

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:25:00 AM

Lab ID: 2207065-036

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	4300	150		mg/Kg	50	7/12/2022 2:19:38 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 11:28:07 PM	68627
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 11:28:07 PM	68627
Surr: DNOP	101	51.1-141		%Rec	1	7/8/2022 11:28:07 PM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 1:11:00 PM	68617
Surr: BFB	89.8	37.7-212		%Rec	1	7/8/2022 1:11:00 PM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 1:11:00 PM	68617
Toluene	ND	0.049		mg/Kg	1	7/8/2022 1:11:00 PM	68617
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 1:11:00 PM	68617
Xylenes, Total	ND	0.098		mg/Kg	1	7/8/2022 1:11:00 PM	68617
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	7/8/2022 1:11:00 PM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-21A

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:30:00 AM

Lab ID: 2207065-037

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	8000	300		mg/Kg	100	7/12/2022 2:32:04 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/8/2022 11:42:24 PM	68627
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 11:42:24 PM	68627
Surr: DNOP	102	51.1-141		%Rec	1	7/8/2022 11:42:24 PM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/8/2022 1:31:00 PM	68617
Surr: BFB	91.0	37.7-212		%Rec	1	7/8/2022 1:31:00 PM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 1:31:00 PM	68617
Toluene	ND	0.048		mg/Kg	1	7/8/2022 1:31:00 PM	68617
Ethylbenzene	ND	0.048		mg/Kg	1	7/8/2022 1:31:00 PM	68617
Xylenes, Total	ND	0.095		mg/Kg	1	7/8/2022 1:31:00 PM	68617
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	7/8/2022 1:31:00 PM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-38

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:35:00 AM

Lab ID: 2207065-038

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	430	60		mg/Kg	20	7/12/2022 3:09:18 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	21	14		mg/Kg	1	7/12/2022 11:13:50 AM	68627
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/12/2022 11:13:50 AM	68627
Surr: DNOP	119	51.1-141		%Rec	1	7/12/2022 11:13:50 AM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/8/2022 2:11:00 PM	68617
Surr: BFB	88.3	37.7-212		%Rec	1	7/8/2022 2:11:00 PM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/8/2022 2:11:00 PM	68617
Toluene	ND	0.047		mg/Kg	1	7/8/2022 2:11:00 PM	68617
Ethylbenzene	ND	0.047		mg/Kg	1	7/8/2022 2:11:00 PM	68617
Xylenes, Total	ND	0.093		mg/Kg	1	7/8/2022 2:11:00 PM	68617
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	7/8/2022 2:11:00 PM	68617

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

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Analytical Report

Lab Order 2207065

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-39

Project: Hornbaker BA Battery

Collection Date: 6/30/2022 11:40:00 AM

Lab ID: 2207065-039

Matrix: SOIL

Received Date: 7/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1700	60		mg/Kg	20	7/12/2022 3:21:43 PM	68681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/9/2022 12:10:39 AM	68627
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/9/2022 12:10:39 AM	68627
Surr: DNOP	88.2	51.1-141		%Rec	1	7/9/2022 12:10:39 AM	68627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 2:31:00 PM	68617
Surr: BFB	89.0	37.7-212		%Rec	1	7/8/2022 2:31:00 PM	68617
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 2:31:00 PM	68617
Toluene	ND	0.049		mg/Kg	1	7/8/2022 2:31:00 PM	68617
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 2:31:00 PM	68617
Xylenes, Total	ND	0.099		mg/Kg	1	7/8/2022 2:31:00 PM	68617
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	7/8/2022 2:31:00 PM	68617

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

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

WO#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68665	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 68665		RunNo: 89355							
Prep Date: 7/10/2022	Analysis Date: 7/10/2022		SeqNo: 3178542		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68665	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 68665		RunNo: 89355							
Prep Date: 7/10/2022	Analysis Date: 7/10/2022		SeqNo: 3178543		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Sample ID: MB-68676	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 68676		RunNo: 89392							
Prep Date: 7/11/2022	Analysis Date: 7/11/2022		SeqNo: 3180019		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68676	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 68676		RunNo: 89392							
Prep Date: 7/11/2022	Analysis Date: 7/11/2022		SeqNo: 3180020		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	90	110			

Sample ID: MB-68681	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 68681		RunNo: 89394							
Prep Date: 7/11/2022	Analysis Date: 7/11/2022		SeqNo: 3180120		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68681	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 68681		RunNo: 89394							
Prep Date: 7/11/2022	Analysis Date: 7/11/2022		SeqNo: 3180121		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

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

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

WO#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-68588	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68588	RunNo: 89303								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176047 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.7	51.1	141			

Sample ID: LCS-68588	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68588	RunNo: 89304								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176079 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	82.0	64.4	127			
Surr: DNOP	4.3		5.000		86.2	51.1	141			

Sample ID: MB-68588	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68588	RunNo: 89304								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176080 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.1	51.1	141			

Sample ID: MB-68588	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68588	RunNo: 89260								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3178991 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	51.1	141			

Sample ID: MB-68601	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68601	RunNo: 89260								
Prep Date: 7/6/2022	Analysis Date: 7/9/2022	SeqNo: 3179022 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-68601	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 68601		RunNo: 89260							
Prep Date: 7/6/2022	Analysis Date: 7/9/2022		SeqNo: 3179023		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	97.4	64.4	127			
Surr: DNOP	4.5		5.000		89.7	51.1	141			

Sample ID: 2207065-011AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH-134	Batch ID: 68624		RunNo: 89373							
Prep Date: 7/7/2022	Analysis Date: 7/8/2022		SeqNo: 3179274		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	48.59	0	101	36.1	154			
Surr: DNOP	5.3		4.859		110	51.1	141			

Sample ID: 2207065-011AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH-134	Batch ID: 68624		RunNo: 89373							
Prep Date: 7/7/2022	Analysis Date: 7/8/2022		SeqNo: 3179275		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	49.07	0	96.4	36.1	154	3.90	33.9	
Surr: DNOP	5.1		4.907		105	51.1	141	0	0	

Sample ID: LCS-68624	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 68624		RunNo: 89373							
Prep Date: 7/7/2022	Analysis Date: 7/8/2022		SeqNo: 3179295		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.1	64.4	127			
Surr: DNOP	4.7		5.000		95.0	51.1	141			

Sample ID: MB-68624	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 68624		RunNo: 89373							
Prep Date: 7/7/2022	Analysis Date: 7/8/2022		SeqNo: 3179296		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2207065-031AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-154	Batch ID: 68627	RunNo: 89385								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3179940 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	14	46.38	0	87.1	36.1	154			
Surr: DNOP	3.8		4.638		82.0	51.1	141			

Sample ID: 2207065-031AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-154	Batch ID: 68627	RunNo: 89385								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3179941 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	48.88	0	97.7	36.1	154	16.7	33.9	
Surr: DNOP	4.9		4.888		99.4	51.1	141	0	0	

Sample ID: MB-68627	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68627	RunNo: 89385								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3179984 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	51.1	141			

Sample ID: LCS-68627	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68627	RunNo: 89385								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3179986 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.5	64.4	127			
Surr: DNOP	4.6		5.000		92.4	51.1	141			

Sample ID: MB-68675	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68675	RunNo: 89401								
Prep Date: 7/11/2022	Analysis Date: 7/12/2022	SeqNo: 3180414 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.2	51.1	141			

Sample ID: LCS-68675	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68675	RunNo: 89401								
Prep Date: 7/11/2022	Analysis Date: 7/12/2022	SeqNo: 3180415 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 2207065
14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: LCS-68675	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68675	RunNo: 89401								
Prep Date: 7/11/2022	Analysis Date: 7/12/2022	SeqNo: 3180415		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.3	51.1	141			

Qualifiers:

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

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

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

WO#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-68595	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68595			RunNo: 89311						
Prep Date: 7/6/2022	Analysis Date: 7/7/2022			SeqNo: 3176196		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.1	37.7	212			

Sample ID: lcs-68595	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68595			RunNo: 89311						
Prep Date: 7/6/2022	Analysis Date: 7/7/2022			SeqNo: 3176197		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2200		1000		215	37.7	212			S

Sample ID: lcs-68585	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68585			RunNo: 89331						
Prep Date: 7/6/2022	Analysis Date: 7/7/2022			SeqNo: 3177230		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2100		1000		205	37.7	212			

Sample ID: mb-68585	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68585			RunNo: 89331						
Prep Date: 7/6/2022	Analysis Date: 7/7/2022			SeqNo: 3177231		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.2	37.7	212			

Sample ID: lcs-68617	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68617			RunNo: 89348						
Prep Date: 7/7/2022	Analysis Date: 7/8/2022			SeqNo: 3178120		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	93.4	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

Sample ID: mb-68617	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68617			RunNo: 89348						
Prep Date: 7/7/2022	Analysis Date: 7/8/2022			SeqNo: 3178121		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-68617	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68617	RunNo: 89348								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3178121 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		90.2	37.7	212			

Sample ID: 2207065-028ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-151	Batch ID: 68617	RunNo: 89348								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3178123 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.68	0	115	70	130			
Surr: BFB	2200		987.2		219	37.7	212			S

Sample ID: 2207065-028amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-151	Batch ID: 68617	RunNo: 89348								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3178124 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.46	0	122	70	130	4.76	20	
Surr: BFB	2200		978.5		223	37.7	212	0	0	S

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#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-68595	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68595	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176237 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		99.0	70	130			

Sample ID: LCS-68595	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68595	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176238 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	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: 2207065-011ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-134	Batch ID: 68595	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3176240 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9843	0	105	68.8	120			
Toluene	1.1	0.049	0.9843	0	112	73.6	124			
Ethylbenzene	1.1	0.049	0.9843	0	114	72.7	129			
Xylenes, Total	3.4	0.098	2.953	0	114	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9843		98.9	70	130			

Sample ID: 2207065-011amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-134	Batch ID: 68595	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3176241 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9940	0	112	68.8	120	7.23	20	
Toluene	1.2	0.050	0.9940	0	118	73.6	124	6.29	20	
Ethylbenzene	1.2	0.050	0.9940	0	121	72.7	129	7.56	20	
Xylenes, Total	3.6	0.099	2.982	0	121	75.7	126	7.00	20	
Surr: 4-Bromofluorobenzene	0.99		0.9940		99.8	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	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#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: ics-68585	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68585		RunNo: 89331							
Prep Date: 7/6/2022	Analysis Date: 7/7/2022		SeqNo: 3177306		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: mb-68585	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68585		RunNo: 89331							
Prep Date: 7/6/2022	Analysis Date: 7/7/2022		SeqNo: 3177307		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: ics-68617	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68617		RunNo: 89348							
Prep Date: 7/7/2022	Analysis Date: 7/8/2022		SeqNo: 3178181		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.93	0.050	1.000	0	92.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.7	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.8	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

Sample ID: mb-68617	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68617		RunNo: 89348							
Prep Date: 7/7/2022	Analysis Date: 7/8/2022		SeqNo: 3178182		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	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#: 2207065

14-Jul-22

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2207065-029ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-152	Batch ID: 68617	RunNo: 89348								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3178185 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9643	0	104	68.8	120			
Toluene	1.0	0.048	0.9643	0	107	73.6	124			
Ethylbenzene	1.0	0.048	0.9643	0	108	72.7	129			
Xylenes, Total	3.1	0.096	2.893	0	107	75.7	126			
Surr: 4-Bromofluorobenzene	0.82		0.9643		85.5	70	130			

Sample ID: 2207065-029amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-152	Batch ID: 68617	RunNo: 89348								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3178186 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9625	0	101	68.8	120	2.91	20	
Toluene	1.0	0.048	0.9625	0	105	73.6	124	1.81	20	
Ethylbenzene	1.0	0.048	0.9625	0	106	72.7	129	2.23	20	
Xylenes, Total	3.0	0.096	2.887	0	105	75.7	126	2.13	20	
Surr: 4-Bromofluorobenzene	0.82		0.9625		84.7	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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2207065

RcptNo: 1

Received By: Andy Freeman

7/2/2022 9:30:00 AM

Completed By: Sean Livingston

7/5/2022 8:15:11 AM

Reviewed By:

7.5.22

Andy Freeman
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: gn 7/5/22

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	4.5	Good				
2	3.6	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)

Turn-Around Time:

☒ Standard ☒ Rush 5-day

Project Name:

Humboldt BA Battery

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2

4.6-6.1=4.5

Cooler Temp (including CF):

3.3-6.1=3.6

Container Type and #

HEAL No.

2207025

Preservative Type

Jcr

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

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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:

Humboldt BA Betty

Project #:

11228280

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2

96-0.1 = 4.5

Cooler Temp (including CF):

3.7-0.1 = 3.6

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

0910

S

BH-136

Ice

013

0915

BH-137

014

0920

BH-138

015

0925

BH-139

016

0930

BH-140

017

0935

BH-141

018

0940

BH-142

019

0945

BH-143

020

1000

BH-144

021

1005

BH-145

022

1010

BH-146

023

1015

BH-1457

024

Date: 9/11/22

Time: 0800

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Received by: [Signature]

Via:

Date: 7/1/22

Time: 0800

Date: 9/11/22

Time: 1900

Relinquished by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

Via:

Date: 7/2/22

Time: 0935

Remarks: Please email: Chase_Settle@eogresources.com;

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

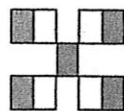
Matthew.Laughlin@ghd.com;

Amber_Griffin@eogresources.com; Along with Becky

Haskell listed above.

Direct Bill to EOG-Chase Settle

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

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

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:

Humboldt BA Betty

Project #:

112289830

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 46-61=45

Cooler Temp (including CF): 37-61=36

Container Type and #

Preservative Type

HEAL No.

Jr

025

026

027

028

029

030

031

032

033

034

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Attachment B Photographic Log



Site Photographs

**EOG Hornbaker BA Battery Release
Site.**

GHD | Report for EOG | 11228980



Site Photographs

**EOG Hornbaker BA Battery Release
Site.**

GHD | Report for EOG | 11228980



Site Photographs

EOG Hornbaker BA Battery Release Site.

GHD | Report for EOG | 11228980



Site Photographs

**EOG Hornbaker BA Battery Release
Site.**

GHD | Report for EOG | 11228980



Site Photographs

EOG Hornbaker BA Battery Release
Site.

GHD | Report for EOG | 11228980



Site Photographs

EOG Hornbaker BA Battery Release Site.

GHD | Report for EOG | 11228980



Site Photographs

**EOG Hornbaker BA Battery Release
Site.**

GHD | Report for EOG | 11228980

Attachment C

Sampling Notifications

Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Thursday, May 5, 2022 9:21 AM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: Hornbaker BA Battery (nAPP2115335335) Sampling Notification

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, May 5, 2022 8:19 AM
To: Robert.Hamlet@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Hornbaker BA Battery (nAPP2115335335) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Hornbaker BA Battery
G-25-18S-25E; Eddy County, NM
nAPP2115335335

Sampling will begin at 8:00 a.m. on Wednesday, May 11, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Wednesday, May 11, 2022 5:00 PM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: Hornbaker BA Battery (nAPP2115335335) Sampling Notification

Thank you,
Amber Griffin

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Wednesday, May 11, 2022 3:49 PM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Subject: Hornbaker BA Battery (nAPP2115335335) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Hornbaker BA Battery
G-25-18S-25E; Eddy County, NM
nAPP2115335335

Sampling will begin at 10:00 a.m. on Monday, May 16, 2022.

Thank you,

Miriam Morales

Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Thursday, June 9, 2022 2:43 PM
To: Becky Haskell; Zach Comino
Subject: FW: Hornbaker BA Battery (nAPP2115335335) Sampling

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 9, 2022 10:06 AM
To: Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Hornbaker BA Battery (nAPP2115335335) Sampling

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Hornbaker BA Battery
G-25-18S-25E; Eddy County, NM
nAPP2115335335

Sampling will begin at 8:00 a.m. on Tuesday, June 14, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Tuesday, July 5, 2022 1:26 PM
To: Becky Haskell; Zach Comino
Subject: FW: Hornbaker BA Battery (nAPP2115335335) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 30, 2022 7:01 AM
To: Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Hornbaker BA Battery (nAPP2115335335) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Hornbaker BA Battery
G-25-18S-25E
Eddy County, NM
nAPP2115335335

Sampling will begin at 8:00 a.m. on Tuesday, July 5, 2022 and continue through Friday, July 8, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 143920

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 143920
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/20/2022