

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)
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

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

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

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

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

Nature and Volume of Release

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

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

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

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

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Chase Settle</u>	Title: <u>Rep Safety & Environmental Sr</u>
Signature: <u></u>	Date: <u>6/2/2021</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

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

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

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

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

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

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

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: 12/22/21
email: Chase Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Chad Hensley Date: 02/16/2022

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

Our ref: 11228980

December 22, 2021

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

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

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Delineation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Hornbaker BA Battery Release 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. The EOG production facility and other site details are depicted on Figure 2, Site Assessment: Soil Analytical Results Map.

2. Background Information

A C-141 Release Notification for this release was submitted to the NMOCD on June 2, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to go ahead and file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number NAPP2115335335. The Release Notification and, Site Assessment/Characterization portions of Form C-141 are attached to the front of this report.

3. Groundwater and Site Characterization

GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the site is located within 300 feet of a significant watercourse. No groundwater data could be located within one-half mile of the Site. No receptors (water wells, playas, wetlands, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

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

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

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

4. Initial Soil Delineation Assessment Summary and Findings

On June 10 through July 15, 2021, GHD Services Inc. (GHD) and EOG's contractor Culberson Construction Energy Services (CCI) installed thirty (30) test pits, TP1 through TP30, within the suspected impacted area. Soil samples were collected at depths ranging from surface to twenty (20) feet bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

Seventeen (17) of the thirty (30) test pits had samples exceeding applicable NMAC 19.15.29.12 Table 1 (Table 1). Closure Criteria for a significant watercourse less than three-hundred (300) feet: TP1, TP2, TP3, TP5, TP6, TP7, TP9, TP11, TP13, TP15, TP17, TP19, TP22, TP23, TP26, TP27 and TP28. Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment B.

5. nAPP2115335335 Proposed Work Plan

Test pits TP3, TP7, TP9, TP19, TP23, TP27 & TP28 were vertically delineated during the initial sampling event while test pits TP1, TP2, TP5, TP6, TP11, TP13, TP15, TP17, TP22 and TP26 were not. Test pits TP1, TP2, TP5, TP6, TP11, TP13, TP15, TP17, TP22 and TP26 exhibited chlorides or Total TPH above Table 1 closure criteria to a depth of twenty (20) feet bgs. Between the dates of December 8 through 14, 2021, GHD and White installed four (4) borings strategically positioned around the areas of test pits not

vertically delineated to delineate Total TPH and chloride impacts. 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. Select soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

Once analytical results are obtained from the laboratory they will be evaluated and a new work plan for remediation will be prepared and submitted to the NMOCD for evaluation within 60 days.

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

Sincerely,

GHD



Becky Haskell
Senior Project Manager



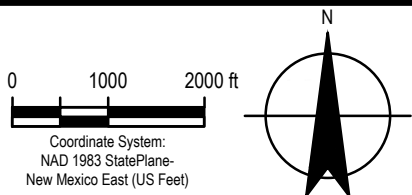
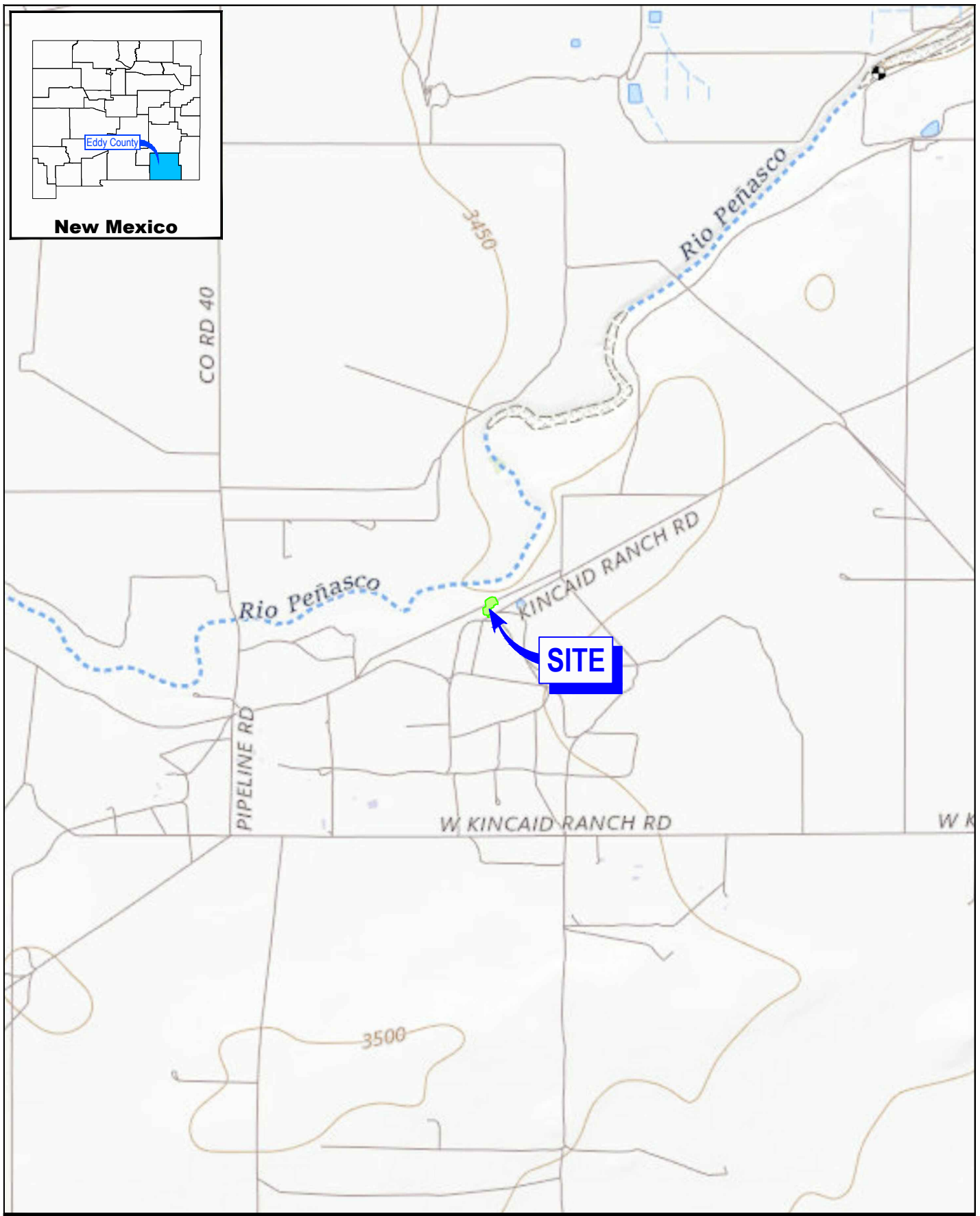
Zach H. Comino
Field Geologist

BH/ZC/1

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

cc: Chase Settle

Figures



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
HORNBAKER BA BATTERY

Project No. 11228980-02
Date December 2021

SITE LOCATION MAP

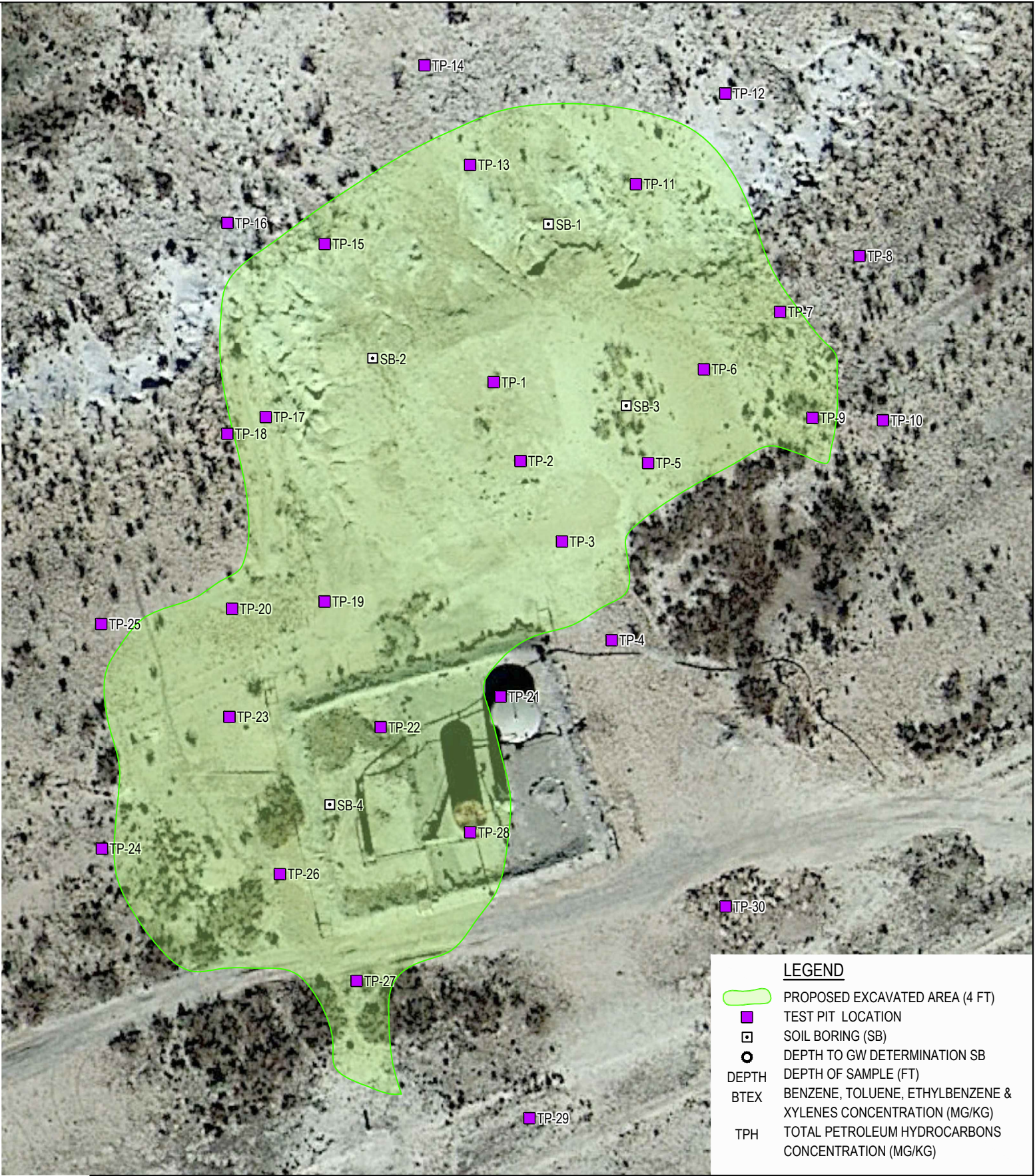
FIGURE 1

Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH Total GRO/DRO/MRO	Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to			
			10 mg/Kg	50 mg/Kg	100 mg/Kg	600 mg/Kg
Initial Assessment Samples						
TP1-6	6/10/21	6	5.2	78.2	17,000	2,600
TP1-20	7/13/21	20	0.033	2.833	1,408	650
TP2-2	6/10/21	2	<0.025	<0.098	<50	1,400
TP2-5	6/10/21	5	<0.025	<0.10	97	570
TP2-6	6/15/21	6	<0.025	<0.10	14	2,200
TP2-12	7/13/21	12	<0.025	<0.10	<50	4,700
TP2-16	7/13/21	16	<0.024	<0.096	<47	6,000
TP2-20	7/13/21	20	<0.025	<0.098	<48	8,600
TP3-2	6/10/21	2	<0.12	<0.50	630	1,500
TP3-5	6/10/21	5	<0.12	<0.50	280	980
TP3-6	6/15/21	6	<0.025	<0.098	130	750
TP3-8	6/15/21	8	<0.025	<0.097	15	750
TP3-10	7/12/21	10	<0.023	<0.094	<49	610
TP3-14	7/12/21	14	<0.024	<0.095	<48	590
TP4-S	6/10/21	Surface	<0.024	<0.098	<47	<60
TP4-2	6/10/21	2	<0.025	<0.098	<46	130
TP5-2	6/10/21	2	<0.024	<0.098	<4.9	3,400
TP5-5	6/10/21	5	<0.025	<0.099	<4.9	2,100
TP5-8	6/11/21	8	<0.024	<0.095	<48	2,900
TP5-10	6/11/21	10	<0.023	<0.094	<49	2,200
TP5-12	7/13/21	12	<0.025	<0.10	<49	5,400
TP5-16	7/13/21	16	<0.025	<0.10	<49	7,300
TP5-20	7/13/21	20	<0.025	<0.099	<50	9,200
TP6-2	6/10/21	2	<0.025	<0.099	<49	7,200
TP6-5	6/10/21	5	<0.025	<0.098	<43	4,000
TP6-6	6/11/21	6	<0.024	<0.097	<45	4,900
TP6-10	6/11/21	10	<0.024	<0.096	<49	920
TP6-12	7/13/21	12	<0.025	<0.099	<48	8,500
TP6-16	7/13/21	16	<0.025	<0.10	<48	9,900
TP6-20	7/13/21	20	<0.025	<0.099	<46	9,900
TP7-2	6/10/21	2	<0.025	<0.098	<47	1,100
TP7-5	6/10/21	5	<0.025	<0.1	<50	280
TP8-S	6/10/21	Surface	<0.12	<0.5	<47	<60
TP8-2	6/10/21	2	<0.025	<0.099	<49	250
TP9-2	6/10/21	2	<0.024	<0.097	<47	3,900
TP9-5	6/10/21	5	<0.025	<0.099	<50	3,200
TP9-6	6/11/21	6	<0.025	<0.050	<50	710
TP9-8	7/13/21	8	<0.023	<0.094	26	590
TP9-10	7/13/21	10	<0.024	<0.096	17	140
TP10-S	6/10/21	Surface	<0.12	<0.50	<50	<61
TP10-2	6/10/21	2	<0.025	<0.099	<48	320
TP11-1	6/10/21	1	<0.025	<0.098	<48	1,900
TP11-3	6/11/21	3	<0.025	<0.099	<4.9	1,400
TP11-5	6/11/21	5	<0.024	<0.097	<50	610
TP11-8	7/13/21	8	<0.024	<0.098	<50	8,600
TP11-12	7/13/21	12	<0.024	<0.096	<49	9,500
TP11-15	7/13/21	15	<0.025	<0.10	<49	8,800
TP11-18	7/13/21	18	<0.024	<0.097	<49	10,000
TP11-20	7/13/21	20	<0.025	<0.099	<48	16,000
TP12-S	6/10/21	Surface	<0.025	<0.099	<49	<60
TP12-1	6/10/21	1	<0.025	<0.099	<49	90
TP13-2	6/10/21	2	<0.024	<0.098	<48	4,600
TP13-5	6/11/21	5	<0.023	<0.091	<48	5,200
TP13-7	7/13/21	7	<0.025	<0.099	<47	11,000
TP13-14	7/13/21	14	<0.025	<0.098	<49	8,500
TP13-20	7/13/21	20	<0.024	<0.098	<47	13,000

NOTES:

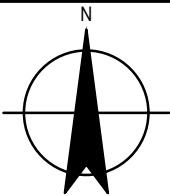
1. RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.

Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH	Chloride
			(mg/Kg)	(mg/Kg)	Total GRO/DRO/MRO	
			Table I Closure Criteria for Soils <50 feet Depth to			
			10 mg/Kg	50 mg/Kg	100 mg/Kg	600 mg/Kg
Initial Assessment Samples						
TP14-S	6/10/21	Surface	<0.025	<0.099	<48	<60
TP14-2	6/10/21	2	<0.025	<0.1	<48	310
TP15-1	6/10/2021	1	<0.025	<0.098	<48	2,400
TP15-6	6/11/21	6	<0.024	0.42	1,334	3,300
TP15-10	6/11/21	10	<0.025	0.614	1,183	2,200
TP15-14	7/13/21	14	<0.025	<0.099	<48	4,200
TP15-16	7/13/21	16	<0.025	0.371	569.7	6,000
TP15-20	7/13/21	20	<0.025	<0.099	<50	6,100
TP16-S	6/10/21	Surface	<0.025	<0.1	<47	<60
TP16-2	6/10/21	2	<0.025	<0.1	<50	150
TP17-2	6/10/2021	2	<0.024	<0.097	<49	2,700
TP17-4	6/11/21	4	<0.024	<0.095	<50	1,600
TP17-8	7/14/21	8	<0.025	<0.099	<49	2,500
TP17-14	7/14/21	14	<0.023	<0.093	<48	5,100
TP17-20	7/14/21	20	<0.024	<0.095	<50	9,200
TP18-S	6/10/21	Surface	<0.025	<0.1	<48	<60
TP18-2	6/10/21	2	<0.024	<0.097	<50	66
TP19-2	6/10/21	2	<0.049	<0.098	<50	2,100
TP19-5	6/10/21	5	<0.024	<0.097	<49	870
TP19-6	6/11/21	6	<0.024	<0.097	<48	720
TP19-10	7/14/21	10	<0.023	<0.093	<49	210
TP19-14	7/14/21	14	<0.024	<0.096	<47	180
TP20-S	6/10/21	Surface	<0.025	<0.098	<48	<59
TP20-2	6/10/21	2	<0.025	<0.099	<47	310
TP21-S	6/15/2021	Surface	<0.025	<0.10	<45	<60
TP21-2	6/15/2021	2	<0.025	<0.099	<43	<60
TP22-S	6/15/2021	Surface	<0.025	<0.098	<50	<60
TP22-2	6/15/2021	2	<0.025	<0.099	195	<60
TP22-4	7/14/2021	4	<0.12	<0.47	2,700	1,000
TP22-7	7/14/2021	7	<0.023	<0.093	540	2,100
TP22-14	7/14/2021	14	<0.023	<0.093	<46	1,500
TP22-20	7/14/2021	20	<0.024	<0.096	540	2,200
TP23-2	6/15/2021	2	<0.025	<0.10	<47	5,700
TP23-6	6/15/2021	6	<0.025	<0.098	<44	1,700
TP23-9	6/15/2021	9	<0.023	<0.092	<45	820
TP23-10	6/15/2021	10	<0.023	<0.092	<48	710
TP23-12	7/14/2021	12	<0.025	<0.098	<48	260
TP23-14	7/14/2021	14	<0.025	<0.099	<49	<60
TP24-S	6/15/2021	Surface	<0.024	<0.095	<50	74
TP24-2	6/15/2021	2	<0.025	<0.099	<48	<60
TP25-S	6/15/2021	Surface	<0.025	<0.098	<51	<60
TP25-2	6/15/2021	2	<0.025	<0.099	<47	<60
TP26-2	6/15/2021	2	<0.025	<0.099	<45	1,500
TP26-6	6/15/2021	6	<0.025	<0.098	<46	710
TP26-8	7/14/2021	8	<0.024	<0.096	<48	2,100
TP26-16	7/14/2021	16	<0.024	<0.095	<48	1,900
TP26-20	7/14/2021	20	<0.024	<0.096	<48	1,300
TP27-S	6/15/2021	Surface	<0.025	<0.099	74.9	76
TP27-2	6/15/2021	2	<0.024	<0.097	149	120
TP27-4	7/14/2021	4	<0.024	<0.098	<50	1,100
TP27-11	7/14/2021	11	<0.024	<0.094	<47	700
TP27-16	7/14/2021	16	<0.023	<0.092	<47	200
TP28-8	7/14/2021	8	<0.025	<0.099	<49	2,400
TP28-12	7/14/2021	12	<0.024	<0.098	<48	2,100
TP28-20	7/14/2021	20	<0.025	<0.099	<46	570
TP29-S	7/15/2021	Surface	<0.025	<0.10	<48	<60
TP29-2	7/15/2021	2	<0.025	<0.098	<49	<60
TP30-S	7/15/2021	Surface	<0.024	<0.097	<49	<60
TP30-2	7/15/2021	2	<0.025	<0.10	<49	<60



0 20 40 ft

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



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
HORNBAKER BA BATTERY

SITE ASSESSMENT:
SOIL ANALYTICAL RESULTS MAP

Project No. 11228980-02
Date December 2021

FIGURE 2

Tables

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

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

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
TP6-16	7/13/21	16	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	9,900
TP6-20	7/13/21	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	9,900
TP7-2	6/10/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	1,100
TP7-5	6/10/21	5	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<10	<50	<50	280
TP8-S	6/10/21	Surface	<0.12	<0.25	<0.25	<0.5	<0.5	<25	<9.5	<47	<47	<60
TP8-2	6/10/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	250
TP9-2	6/10/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<47	<47	3,900
TP9-5	6/10/21	5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<10	<50	<50	3,200
TP9-6	6/11/21	6	<0.025	<0.050	<0.050	<0.050	<0.050	<5.0	<10	<50	<50	710
TP9-8	7/13/21	8	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	26	<47	26	590
TP9-10	7/13/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	17	<48	17	140
TP10-S	6/10/21	Surface	<0.12	<0.25	<0.25	<0.50	<0.50	<25	<10	<50	<50	<61
TP10-2	6/10/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	320
TP11-1	6/10/21	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	1,900
TP11-3	6/11/21	3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<4.9	1,400
TP11-5	6/11/21	5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	610
TP11-8	7/13/21	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	8,600
TP11-12	7/13/21	12	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	9,500
TP11-15	7/13/21	15	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	8,800
TP11-18	7/13/21	18	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<49	10,000
TP11-20	7/13/21	20	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	16,000
TP12-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	<60
TP12-1	6/10/21	1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	90
TP13-2	6/10/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	4,600
TP13-5	6/11/21	5	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.5	<48	<48	5,200
TP13-7	7/13/21	7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	11,000
TP13-14	7/13/21	14	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	8,500
TP13-20	7/13/21	20	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	13,000

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EOG Resources
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Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
TP14-S	6/10/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<48	<60
TP14-2	6/10/21	2	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.6	<48	<48	310
TP15-1	6/10/2021	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	2,400
TP15-6	6/11/21	6	<0.024	<0.048	<0.048	0.42	0.42	34	900	400	1,334	3,300
TP15-10	6/11/21	10	<0.025	<0.047	0.054	0.56	0.614	43	800	340	1,183	2,200
TP15-14	7/13/21	14	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	4,200
TP15-16	7/13/21	16	<0.025	<0.049	0.071	0.30	0.371	9.7	390	170	569.7	6,000
TP15-20	7/13/21	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	6,100
TP16-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.5	<47	<47	<60
TP16-2	6/10/21	2	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<10	<50	<50	150
TP17-2	6/10/2021	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<49	2,700
TP17-4	6/11/21	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<50	<50	1,600
TP17-8	7/14/21	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	2,500
TP17-14	7/14/21	14	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.7	<48	<48	5,100
TP17-20	7/14/21	20	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<10	<50	<50	9,200
TP18-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.7	<48	<48	<60
TP18-2	6/10/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<50	<50	66
TP19-2	6/10/21	2	<0.049	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	2,100
TP19-5	6/10/21	5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	870
TP19-6	6/11/21	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	720
TP19-10	7/14/21	10	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.9	<49	<49	210
TP19-14	7/14/21	14	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	180
TP20-S	6/10/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	<59
TP20-2	6/10/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	310
TP21-S	6/15/2021	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<45	<45	<60
TP21-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.5	<43	<43	<60
TP22-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	<60

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Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
TP22-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	45	150	195	<60
TP22-4	7/14/2021	4	<0.12	<0.23	<0.23	<0.47	<0.47	<23	1,300	1,400	2,700	1,000
TP22-7	7/14/2021	7	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	230	310	540	2,100
TP22-14	7/14/2021	14	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.3	<46	<46	1,500
TP22-20	7/14/2021	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	190	350	540	2,200
TP23-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<47	5,700
TP23-6	6/15/2021	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	1,700
TP23-9	6/15/2021	9	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.1	<45	<45	820
TP23-10	6/15/2021	10	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<48	<48	710
TP23-12	7/14/2021	12	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	260
TP23-14	7/14/2021	14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	<60
TP24-S	6/15/2021	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	74
TP24-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP25-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<51	<51	<60
TP25-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	<60
TP26-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.0	<45	<45	1,500
TP26-6	6/15/2021	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	710
TP26-8	7/14/2021	8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	2,100
TP26-16	7/14/2021	16	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<48	1,900
TP26-20	7/14/2021	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	1,300
TP27-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	9.9	65	74.9	76
TP27-2	6/15/2021	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	49	100	149	120
TP27-4	7/14/2021	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	1,100
TP27-11	7/14/2021	11	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.3	<47	<47	700
TP27-16	7/14/2021	16	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.4	<47	<47	200
TP28-8	7/14/2021	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<49	<49	2,400
TP28-12	7/14/2021	12	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	2,100
TP28-20	7/14/2021	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	570

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EOG Resources
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Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg			
TP29-S	7/15/2021	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<48	<48	<60
TP29-2	7/15/2021	2	<0.025	<0.050	<0.050	<0.098	<0.098	<4.9	<9.8	<49	<49	<60
TP30-S	7/15/2021	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60
TP30-2	7/15/2021	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	<60
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 NMOC 19.15.29.12 Table 1 Closure Criteria for the site. 8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.												
B-BH-2	Sample Point Excavated											

Attachment A

Site Characterization Documentation

Hornbaker BA Battery

Karst Potential Map

Legend

-  High
-  Hornbaker BA Battery
-  Low
-  Medium

 Hornbaker BA Battery

38

38



4000 ft

Google Earth

Hornbaker BA Battery



12/15/2021, 8:19:49 AM

GIS WATERS PODs

Active

Pending

OSE District Boundary

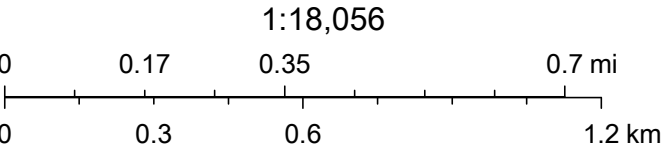
Water Right Regulations

Closure Area

New Mexico State Trust Lands

Both Estates

SiteBoundaries



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

Hornbaker BA Battery

Significant Watercourse Map

Legend

-  0.5 Miles
-  300 Feet
-  Hornbaker BA Battery

CO ROAD 40

DAYTON RD

3450

Rio Peñasco

Hornbaker BA Battery

25

30

KINCAID RANCH RD

CO ROAD 38

38

38

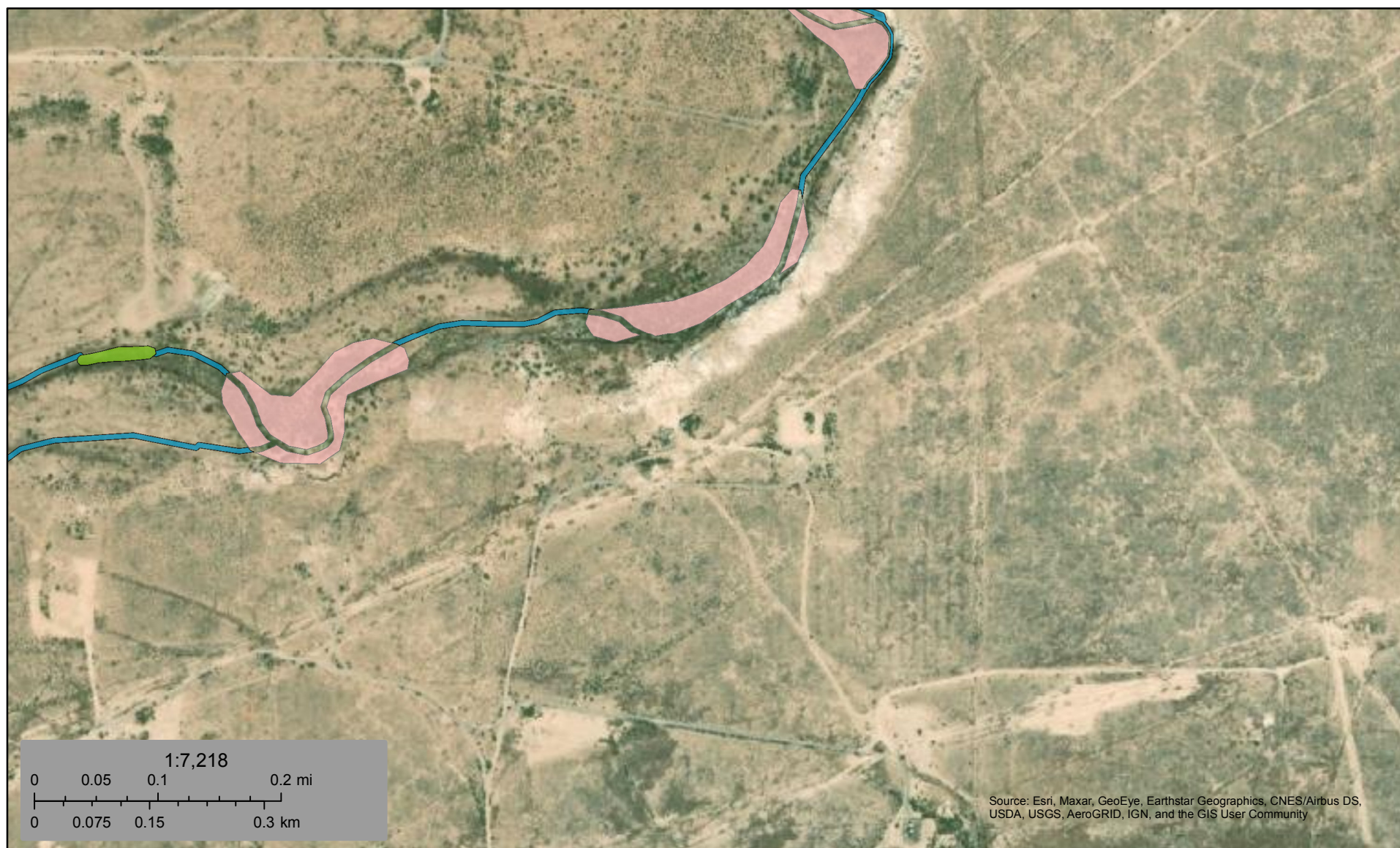
SNOWBERRY LN



4000 ft



Hornbaker BA Battery



December 15, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



104°26'18"W 32°43'31"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 104°25'41"W 32°43'1"N

Released to Imaging: 2/16/2022 PP:21:15 AM

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

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

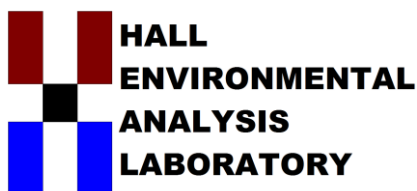
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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

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

Attachment B

Laboratory Analytical Reports and Chain-of-Custody Documentation



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

June 28, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: Hornbaker BA Battery

OrderNo.: 2106711

Dear Tom Larson:

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

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-001

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

Client Sample ID: TP1-6

Matrix: SOIL

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

Lab ID: 2106711-002

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

Client Sample ID: TP2-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-003

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

Client Sample ID: TP2-5

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-004

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

Client Sample ID: TP3-2

Matrix: SOIL

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

Lab ID: 2106711-005

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

Client Sample ID: TP3-5

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-006

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

Client Sample ID: TP4-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-007

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

Client Sample ID: TP4-2

Matrix: SOIL

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

Lab ID: 2106711-008

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

Client Sample ID: TP5-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-009

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

Client Sample ID: TP5-5

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-010

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

Client Sample ID: TP6-2

Matrix: SOIL

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

Lab ID: 2106711-011

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

Client Sample ID: TP6-5

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-012

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

Client Sample ID: TP7-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-013

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

Client Sample ID: TP7-5

Matrix: SOIL

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

Lab ID: 2106711-014

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

Client Sample ID: TP8-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-015

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

Client Sample ID: TP8-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-016

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

Client Sample ID: TP9-2

Matrix: SOIL

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

Lab ID: 2106711-017

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

Client Sample ID: TP9-5

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-018

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

Client Sample ID: TP10-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-019

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

Client Sample ID: TP10-2

Matrix: SOIL

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

Lab ID: 2106711-020

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

Client Sample ID: TP11-1

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-021

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

Client Sample ID: TP12-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-022

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

Client Sample ID: TP12-1

Matrix: SOIL

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

Lab ID: 2106711-023

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

Client Sample ID: TP13-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-024

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

Client Sample ID: TP14-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-025

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

Client Sample ID: TP14-2

Matrix: SOIL

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

Lab ID: 2106711-026

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

Client Sample ID: TP15-1

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-027

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

Client Sample ID: TP16-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-028

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

Client Sample ID: TP16-2

Matrix: SOIL

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

Lab ID: 2106711-029

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

Client Sample ID: TP17-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-030

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

Client Sample ID: TP18-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-031

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

Client Sample ID: TP18-2

Matrix: SOIL

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

Lab ID: 2106711-032

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

Client Sample ID: TP19-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-033

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

Client Sample ID: TP19-5

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

Lab ID: 2106711-034

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

Client Sample ID: TP20-S

Matrix: SOIL

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

Lab ID: 2106711-035

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

Client Sample ID: TP20-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106711

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106711

Project: Hornbaker BA Battery

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

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

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

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

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

Sample ID: LCS-60667	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60667	RunNo: 79104								
Prep Date: 6/16/2021	Analysis Date: 6/16/2021	SeqNo: 2777578 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

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

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

Qualifiers:

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

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

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

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

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

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

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

Sample ID: MB-60613	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60613	RunNo: 79118								
Prep Date: 6/14/2021	Analysis Date: 6/15/2021	SeqNo: 2777079 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	70	130			

Sample ID: MB-60612	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60612	RunNo: 79081								
Prep Date: 6/14/2021	Analysis Date: 6/15/2021	SeqNo: 2777096 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

Qualifiers:

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

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

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

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: LCS-60612	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60612			RunNo: 79081						
Prep Date: 6/14/2021	Analysis Date: 6/15/2021			SeqNo: 2777097		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.1	68.9	141			
Surr: DNOP	4.2		5.000		85.0	70	130			

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

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

Sample ID: MB-60784	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60784			RunNo: 79243						
Prep Date: 6/21/2021	Analysis Date: 6/21/2021			SeqNo: 2783734		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.3	70	130			

Sample ID: LCS-60784	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60784			RunNo: 79243						
Prep Date: 6/21/2021	Analysis Date: 6/21/2021			SeqNo: 2783735		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.8	68.9	141			
Surr: DNOP	4.5		5.000		89.1	70	130			

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

Qualifiers:

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

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

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

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

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

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

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

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

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

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

Qualifiers:

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

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

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

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: mb-60591	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60591			RunNo: 79078						
Prep Date: 6/12/2021	Analysis Date: 6/15/2021			SeqNo: 2775966		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	70	130			

Sample ID: lcs-60591	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60591			RunNo: 79078						
Prep Date: 6/12/2021	Analysis Date: 6/15/2021			SeqNo: 2775967		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: mb-60593	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60593			RunNo: 79119						
Prep Date: 6/12/2021	Analysis Date: 6/16/2021			SeqNo: 2777465		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	70	130			

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

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

Sample ID: 2106711-020amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP11-1	Batch ID: 60593			RunNo: 79119						
Prep Date: 6/12/2021	Analysis Date: 6/16/2021			SeqNo: 2777469		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106711

28-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: 2106711-020amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP11-1		Batch ID: 60593		RunNo: 79119						
Prep Date: 6/12/2021		Analysis Date: 6/16/2021		SeqNo: 2777469		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.70	0	101	61.3	114	1.86	20	
Surr: BFB	1100		988.1		116	70	130	0	0	

Qualifiers:

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

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

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

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: mb-60591	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60591	RunNo: 79078								
Prep Date: 6/12/2021	Analysis Date: 6/15/2021	SeqNo: 2776013 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

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

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

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

Qualifiers:

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

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

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

WO#: 2106711

28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: mb-60593	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60593	RunNo: 79119								
Prep Date: 6/12/2021	Analysis Date: 6/16/2021	SeqNo: 2777498 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	70	130			

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

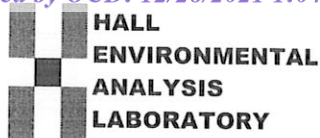
Sample ID: 2106711-021ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP12-S	Batch ID: 60593	RunNo: 79119								
Prep Date: 6/12/2021	Analysis Date: 6/16/2021	SeqNo: 2777502 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit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

Sample ID: 2106711-021amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP12-S	Batch ID: 60593	RunNo: 79119								
Prep Date: 6/12/2021	Analysis Date: 6/16/2021	SeqNo: 2777503 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.0	80	120	0.883	20	
Toluene	1.0	0.050	1.000	0	104	80	120	0.616	20	
Ethylbenzene	1.1	0.050	1.000	0	105	80	120	1.74	20	
Xylenes, Total	3.2	0.10	3.000	0	105	80	120	1.14	20	
Surr: 4-Bromofluorobenzene	0.97		1.000		97.5	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2106711

RcptNo: 1

Received By: Isaiah Ortiz

6/12/2021 7:56:00 AM

I-OX

Completed By: Isaiah Ortiz

6/12/2021 9:17:26 AM

I-OX

Reviewed By: *pm 06/12/2021*Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

IT6
6-12-21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: GHD

Mailing Address:
3242 N. Main St Suite 108 Albuquerque, NM 87109
 Phone #: (505) 571-4218
 email or Fax#: Becky.Haskell@GHD.com
 QA/QC Package: Chase Settle @ egresources.com
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush 5-day
 Project Name: Hawkins BA Battery
 Project #: 11228980
 Project Manager: Becky Haskell
Tom Larson
 Sampler: Zach Combe
 On Ice: ☒ Yes ☐ No
 Sample Temperature: 7.9 °C (46.1 °F) 3.0 °C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
06/10/2021	1235	S	TP14-2	TEU		2106711
	1240		TP15-1			025
	1255		TP16-S			026
	1300		TP16-2			027
	1310		TP17-2			028
	1325		TP18-S			029
	1330		TP18-2			030
	1340		TP19-2			031
	1345		TP19-S			032
	1355		TP20-S			033
	1400		TP20-2			034
						035

Relinquished by: Zach Combe Date: 06/10/2021 Time: 0800

Received by: Wunning Date: 6/11/21 Time: 0800

Relinquished by: Wunning Date: 6/11/21 Time: 1900

Received by: Wunning Date: 6-12-21 Time: 0756

Remarks: Please email zach.combe@GHD.com along with others listed above

Direct Bill to EAG Chase Settle

Chain-of-Custody Record

Client: GHD

Mailing Address:
3242 N. Main St Suite 108 Albuquerque, NM 87109
 Phone #: (505) 571-4218
 email or Fax#: Becky.Haskell@GHD.com
 QA/QC Package: Chase Settle @ egresources.com
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush 5-day
 Project Name: Hawkins BA Battery
 Project #: 11228980
 Project Manager: Becky Haskell
Tom Larson
 Sampler: Zach Combe
 On Ice: ☒ Yes ☐ No
 Sample Temperature: 7.9 °C (46.1 °F) 3.0 °C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
06/10/2021	1235	S	TP14-2	TEU		2106711
	1240		TP15-1			025
	1255		TP16-S			026
	1300		TP16-2			027
	1310		TP17-2			028
	1325		TP18-S			029
	1330		TP18-2			030
	1340		TP19-2			031
	1345		TP19-S			032
	1355		TP20-S			033
	1400		TP20-2			034
						035

Relinquished by: Zach Combe Date: 06/10/2021 Time: 0800

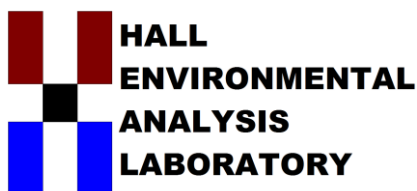
Received by: Wunning Date: 6/11/21 Time: 0800

Relinquished by: Wunning Date: 6/11/21 Time: 1900

Received by: Wunning Date: 6-12-21 Time: 0756

Remarks: Please email zach.combe@GHD.com along with others listed above

Direct Bill to EAG Chase Settle



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

June 24, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Hornbaker BA Battery

OrderNo.: 2106816

Dear Tom Larson:

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

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-001

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

Client Sample ID: TP5-8

Matrix: SOIL

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

Lab ID: 2106816-002

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

Client Sample ID: TP5-10

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-003

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

Client Sample ID: TP6-6

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-004

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

Client Sample ID: TP6-10

Matrix: SOIL

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

Lab ID: 2106816-005

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

Client Sample ID: TP9-6

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-006

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

Client Sample ID: TP11-3

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-007

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

Client Sample ID: TP11-5

Matrix: SOIL

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

Lab ID: 2106816-008

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

Client Sample ID: TP13-5

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-009

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

Client Sample ID: TP15-6

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-010

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

Client Sample ID: TP15-10

Matrix: SOIL

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

Lab ID: 2106816-011

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

Client Sample ID: TP17-4

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106816

Date Reported: 6/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106816

Project: Hornbaker BA Battery

Lab ID: 2106816-012

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

Client Sample ID: TP19-6

Matrix: SOIL

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

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

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

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

WO#: 2106816

24-Jun-21

Client: GHD
Project: Hornbaker BA Battery

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

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

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

Sample ID: LCS-60736	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60736	RunNo: 79166								
Prep Date: 6/18/2021	Analysis Date: 6/18/2021	SeqNo: 2780182 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

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

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

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

WO#: 2106816

24-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: LCS-60694	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60694			RunNo: 79223						
Prep Date: 6/17/2021	Analysis Date: 6/18/2021			SeqNo: 2781759		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.9	68.9	141			
Surr: DNOP	4.6		5.000		91.3	70	130			

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

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

Sample ID: MB-60694	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60694			RunNo: 79223						
Prep Date: 6/17/2021	Analysis Date: 6/18/2021			SeqNo: 2781763		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.0	70	130			

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

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

Qualifiers:

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

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

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

WO#: 2106816

24-Jun-21

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

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

Sample ID: MB-60684	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60684			RunNo: 79188						
Prep Date: 6/16/2021	Analysis Date: 6/19/2021			SeqNo: 2780414		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Qualifiers:

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

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

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

WO#: 2106816

24-Jun-21

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

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

Sample ID: MB-60684	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 60684			RunNo: 79188						
Prep Date: 6/16/2021	Analysis Date: 6/19/2021			SeqNo: 2781040			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.8	70	130			

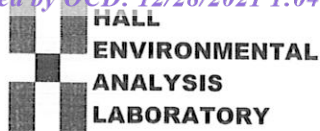
Sample ID: 2106816-001ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: TP5-8	Batch ID: 60684			RunNo: 79188						
Prep Date: 6/16/2021	Analysis Date: 6/19/2021			SeqNo: 2781043			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual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

Sample ID: 2106816-001amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: TP5-8	Batch ID: 60684			RunNo: 79188						
Prep Date: 6/16/2021	Analysis Date: 6/19/2021			SeqNo: 2781044			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9794	0	88.6	80	120	9.68	20	
Toluene	0.87	0.049	0.9794	0	88.4	80	120	9.17	20	
Ethylbenzene	0.89	0.049	0.9794	0	90.7	80	120	9.37	20	
Xylenes, Total	2.6	0.098	2.938	0	89.8	80	120	9.67	20	
Surr: 4-Bromofluorobenzene	0.84		0.9794		85.9	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: **GHD**Work Order Number: **2106816**

RcptNo: 1

Received By: **Juan Rojas** 6/16/2021 7:35:00 AMCompleted By: **Cheyenne Cason** 6/16/2021 8:36:36 AMReviewed By: **IG** 6.16.21

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: **T.C** 6.16.21

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

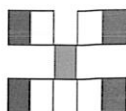
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

ETEX + MTBE + TMB's (8021)
BTEX + MTBE + TPH (Gas only)
TPH 8015B (GRO / DRO / MRO)
TPH (Method 418.1)
EDB (Method 504.1)
PAH's (8310 or 8270 SIMS)
RCRA 8 Metals
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
8081 Pesticides / 8082 PCB's
8260B (VOA)
8270 (Semi-VOA)

Project Manager: Becky Haskell Tom Larsen	
Sampler: Zach Comins	On Ice: ☒ Yes ☐ No
Sample Temperature: 6.8-0.12-0.7	6.3-0.12-0.2
Container Type and #	Preservative Type
	HEAL No. 7106816

email or Fax#:	Zachary Quinn @ GHD.com		
QA/QC Package:	Betsy Haskell @ GHD.com Chase Settle @ gvhresources.com		
☐ Standard	☐ Level 4 (Full Validation)		
Accreditation			
☐ NELAP	☐ Other _____		
☐ EDD (Type)	_____		
Date	Time	Matrix	Sample Request ID

2022 11:21:15 AM

Remarks:

Please email Tam Larson @ CHD.com
along with others listed above

Direct Bill to 50% class cell

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



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

June 29, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Hornbaker BA Battery

OrderNo.: 2106910

Dear Tom Larson:

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-001

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

Client Sample ID: TP3-6

Matrix: SOIL

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

Lab ID: 2106910-002

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

Client Sample ID: TP3-8

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-003

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

Client Sample ID: TP2-6

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-004

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

Client Sample ID: TP21-S

Matrix: SOIL

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

Lab ID: 2106910-005

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

Client Sample ID: TP21-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-006

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

Client Sample ID: TP22-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-007

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

Client Sample ID: TP22-2

Matrix: SOIL

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

Lab ID: 2106910-008

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

Client Sample ID: TP23-2

Matrix: SOIL

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

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

Qualifiers:

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

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

Page 5 of 22

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-009

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

Client Sample ID: TP23-6

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-010

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

Client Sample ID: TP23-9

Matrix: SOIL

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

Lab ID: 2106910-011

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

Client Sample ID: TP23-10

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-012

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

Client Sample ID: TP24-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-013

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

Client Sample ID: TP24-2

Matrix: SOIL

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

Lab ID: 2106910-014

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

Client Sample ID: TP25-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-015

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

Client Sample ID: TP25-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-016

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

Client Sample ID: TP26-2

Matrix: SOIL

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

Lab ID: 2106910-017

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

Client Sample ID: TP26-6

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-018

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

Client Sample ID: TP27-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2106910

Date Reported: 6/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106910

Project: Hornbaker BA Battery

Lab ID: 2106910-019

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

Client Sample ID: TP27-2

Matrix: SOIL

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

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

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

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

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

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

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

Sample ID: LCS-60771	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 60771		RunNo: 79215							
Prep Date: 6/21/2021	Analysis Date: 6/21/2021		SeqNo: 2782462		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

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

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

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

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

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

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

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

Sample ID: LCS-60743	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60743	RunNo: 79223								
Prep Date: 6/18/2021	Analysis Date: 6/19/2021	SeqNo: 2781761 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.3	68.9	141			
Surr: DNOP	5.1		5.000		102	70	130			

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

Sample ID: MB-60694	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60694	RunNo: 79223								
Prep Date: 6/17/2021	Analysis Date: 6/18/2021	SeqNo: 2781763 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.0	70	130			

Qualifiers:

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

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

Page 15 of 22

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

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: MB-60743	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60743	RunNo: 79223								
Prep Date: 6/18/2021	Analysis Date: 6/19/2021	SeqNo: 2781765 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.4	70	130			

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

Sample ID: MB-60742	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60742	RunNo: 79227								
Prep Date: 6/18/2021	Analysis Date: 6/20/2021	SeqNo: 2783470 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.7	70	130			

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

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

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

Qualifiers:

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

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

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

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

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

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

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

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

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

Sample ID: MB-60873	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60873			RunNo: 79364						
Prep Date: 6/23/2021	Analysis Date: 6/26/2021			SeqNo: 2789298		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.0	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106910

29-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: LCS-60873	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60873	RunNo: 79364								
Prep Date: 6/23/2021	Analysis Date: 6/26/2021	SeqNo: 2789299	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

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

Sample ID: MB-60719	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 60719				RunNo: 79207					
Prep Date: 6/17/2021	Analysis Date: 6/19/2021				SeqNo: 2780936	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	70	130			

Sample ID: mb-60726	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 60726				RunNo: 79236					
Prep Date: 6/17/2021	Analysis Date: 6/21/2021				SeqNo: 2782336	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.0	70	130			

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

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

Sample ID: 2106910-010amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP23-9	Batch ID: 60726				RunNo: 79236					
Prep Date: 6/17/2021	Analysis Date: 6/21/2021				SeqNo: 2782340	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106910

29-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: 2106910-010amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP23-9		Batch ID: 60726		RunNo: 79236						
Prep Date: 6/17/2021		Analysis Date: 6/21/2021		SeqNo: 2782340		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.63	0	88.1	61.3	114	3.21	20	
Surr: BFB	1100		985.2		109	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2106910

29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: LCS-60719	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60719	RunNo: 79207								
Prep Date: 6/17/2021	Analysis Date: 6/19/2021	SeqNo: 2780964	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.88	0.050	1.000	0	87.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.0	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.5	70	130			

Sample ID: MB-60719	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60719	RunNo: 79207								
Prep Date: 6/17/2021	Analysis Date: 6/19/2021	SeqNo: 2780965	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.2	70	130			

Sample ID: mb-60726	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60726	RunNo: 79236								
Prep Date: 6/17/2021	Analysis Date: 6/21/2021	SeqNo: 2782380	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	70	130			

Sample ID: LCS-60726	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60726	RunNo: 79236								
Prep Date: 6/17/2021	Analysis Date: 6/21/2021	SeqNo: 2782381	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.7	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

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

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

WO#: 2106910

29-Jun-21

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

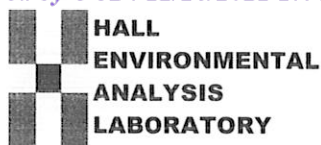
Sample ID: 2106910-011ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP23-10	Batch ID: 60726	RunNo: 79236								
Prep Date: 6/17/2021	Analysis Date: 6/21/2021	SeqNo: 2782384	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit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

Sample ID: 2106910-011amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP23-10	Batch ID: 60726	RunNo: 79236								
Prep Date: 6/17/2021	Analysis Date: 6/21/2021	SeqNo: 2782385	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9833	0	92.8	80	120	2.89	20	
Toluene	0.94	0.049	0.9833	0	95.3	80	120	2.39	20	
Ethylbenzene	0.95	0.049	0.9833	0	96.4	80	120	3.39	20	
Xylenes, Total	2.8	0.098	2.950	0	96.5	80	120	3.72	20	
Surr: 4-Bromofluorobenzene	0.98		0.9833		99.3	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: **GHD**Work Order Number: **2106910**RcptNo: **1**Received By: **Juan Rojas**

6/17/2021 7:35:00 AM

*Juan Rojas*Completed By: **Cheyenne Cason**

6/17/2021 9:15:39 AM

Cheyenne Cason

Reviewed By:

JR 6/17/21

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH.

(<2 or >12 unless noted)

Adjusted?

Checked by:

*JO**6-17-21*

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Humbaker BA Battery

Project #:

11228880

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2

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

Container Type and #

Preservative Type

HEAL No.

2106910

013

014

015

016

017

018

019

Date Time Matrix Sample Name

11/20/21 1120 S TP24-2

11/25/21 1125 TP25-S

11/30/21 1130 TP25-2

12/00/21 1200 TP26-2

12/05/21 1205 TP26-6

12/10/21 1210 TP27-S

12/15/21 1215 TP27-2

Date Time

11/20/21 0800

11/20/21 1900

Relinquished by:

Zach Comino

Relinquished by:

Becky Haskell

Received by:

Becky Haskell

Via:

Date Time

6/16/21 900

Received by:

Becky Haskell

Via:

Date Time

6/16/21 900

Received by:

Becky Haskell

Via:

Date Time

6/16/21 900

Received by:

Becky Haskell

Via:

Date Time

6/16/21 900

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Becky Haskell

Via:

Date Time

6/16/21 900

Received by:

Becky Haskell

Via:

Date Time

6/16/21 900

Received by:

Becky Haskell

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Date Time

6/16/21 900

Received by:

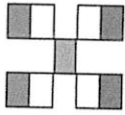
Becky Haskell

Via:

Date Time

6/16/21 900

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/DR0/LMR0) ☒

BTEX / MTBE / TMBs (8024) ☒

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) ☒

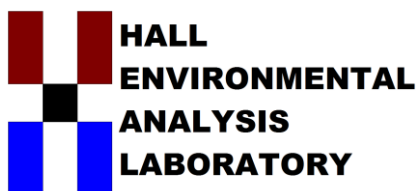
8270 (Semi-VOA) ☒

Total Coliform (Present/Absent) ☒

Chloride (MCL) 300 ☒

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

2 of 2



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

July 27, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2107641

Dear Tom Larson:

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

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2107641

Date Reported: 7/27/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP3-10

Project: Hornbaker BA Battery

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

Lab ID: 2107641-001

Matrix: SOIL

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

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

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

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

Analytical Report

Lab Order 2107641

Date Reported: 7/27/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP3-14

Project: Hornbaker BA Battery

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

Lab ID: 2107641-002

Matrix: SOIL

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

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

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

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

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

WO#: 2107641

27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

Sample ID: LCS-61410	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61410	RunNo: 79938								
Prep Date: 7/19/2021	Analysis Date: 7/20/2021	SeqNo: 2813088	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

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

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

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

WO#: 2107641

27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

Qualifiers:

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

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

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

WO#: 2107641

27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

Sample ID: mb-61315	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809672		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	70	130			

Qualifiers:

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

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

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

WO#: 2107641

27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-61315	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809764		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.7	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

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

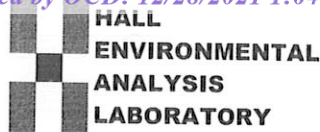
Sample ID: 2107641-001ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: TP3-10	Batch ID: 61315			RunNo: 79870						
Prep Date: 7/14/2021	Analysis Date: 7/17/2021			SeqNo: 2810386		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual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

Sample ID: 2107641-001amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: TP3-10	Batch ID: 61315			RunNo: 79870						
Prep Date: 7/14/2021	Analysis Date: 7/17/2021			SeqNo: 2810387		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.023	0.9183	0	85.7	80	120	1.19	20	
Toluene	0.80	0.046	0.9183	0	87.2	80	120	1.98	20	
Ethylbenzene	0.84	0.046	0.9183	0	91.4	80	120	1.38	20	
Xylenes, Total	2.6	0.092	2.755	0	92.7	80	120	0.660	20	
Surr: 4-Bromofluorobenzene	1.1		0.9183		120	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: **GHD Midland**Work Order Number: **2107641**

RcptNo: 1

Received By: **Cheyenne Cason** 7/14/2021 7:30:00 AMCompleted By: **Sean Livingston** 7/14/2021 8:45:36 AMReviewed By: *JR 7/14/21*

Chad
Sean Livingston

Chain of Custody

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

Log In

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

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

Adjusted? ☐Checked by: **TMC** 7.14.21

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				
2	2.1	Good				



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

July 26, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2107642

Dear Tom Larson:

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

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-001

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

Client Sample ID: TP2-12

Matrix: SOIL

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

Lab ID: 2107642-002

Collection Date: 7/13/2021 8:10:00 AM

Client Sample ID: TP2-16

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-003

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

Client Sample ID: TP2-20

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642**Lab ID:** 2107642-004**Collection Date:** 7/13/2021 9:10:00 AM**Client Sample ID:** TP1-20**Matrix:** SOIL

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

Lab ID: 2107642-005**Collection Date:** 7/13/2021 9:45:00 AM**Client Sample ID:** TP9-8**Matrix:** SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-006

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

Client Sample ID: TP9-10

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642**Lab ID:** 2107642-007**Collection Date:** 7/13/2021 10:30:00 AM**Client Sample ID:** TP6-12**Matrix:** SOIL

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

Lab ID: 2107642-008**Collection Date:** 7/13/2021 10:40:00 AM**Client Sample ID:** TP6-16**Matrix:** SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-009

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

Client Sample ID: TP6-20

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-010

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

Client Sample ID: TP5-12

Matrix: SOIL

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

Lab ID: 2107642-011

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

Client Sample ID: TP5-16

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-012

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

Client Sample ID: TP5-20

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-013

Collection Date: 7/13/2021 1:15:00 PM

Client Sample ID: TP11-8

Matrix: SOIL

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

Lab ID: 2107642-014

Collection Date: 7/13/2021 1:25:00 PM

Client Sample ID: TP11-12

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-015

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

Client Sample ID: TP11-15

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-016

Collection Date: 7/13/2021 1:45:00 PM

Client Sample ID: TP11-18

Matrix: SOIL

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

Lab ID: 2107642-017

Collection Date: 7/13/2021 1:50:00 PM

Client Sample ID: TP11-20

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-018

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

Client Sample ID: TP13-7

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642**Lab ID:** 2107642-019**Collection Date:** 7/13/2021 2:30:00 PM**Client Sample ID:** TP13-14**Matrix:** SOIL

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

Lab ID: 2107642-020**Collection Date:** 7/13/2021 2:45:00 PM**Client Sample ID:** TP13-20**Matrix:** SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-021

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

Client Sample ID: TP15-14

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

Lab ID: 2107642-022

Collection Date: 7/13/2021 3:30:00 PM

Client Sample ID: TP15-16

Matrix: SOIL

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

Lab ID: 2107642-023

Collection Date: 7/13/2021 3:40:00 PM

Client Sample ID: TP15-20

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107642

Date Reported: 7/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107642

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

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

Page 16 of 23

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

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

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

Sample ID: LCS-61410	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61410	RunNo: 79938								
Prep Date: 7/19/2021	Analysis Date: 7/20/2021	SeqNo: 2813088 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

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

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

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

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

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

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

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

Qualifiers:

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

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

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

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

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

Qualifiers:

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

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

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

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

Sample ID: mb-61315	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61315				RunNo: 79869					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809672	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	70	130			

Sample ID: mb-61317	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61317				RunNo: 79857					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809863	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.4	70	130			

Sample ID: lcs-61317	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61317				RunNo: 79857					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809864	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	78.6	131			
Surr: BFB	1100		1000		109	70	130			

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

Sample ID: 2107642-007amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP6-12	Batch ID: 61317				RunNo: 79857					
Prep Date: 7/14/2021	Analysis Date: 7/16/2021				SeqNo: 2809867	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2107642
26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: 2107642-007amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP6-12		Batch ID: 61317		RunNo: 79857						
Prep Date: 7/14/2021		Analysis Date: 7/16/2021		SeqNo: 2809867		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.56	0	92.1	61.3	114	3.52	20	
Surr: BFB	1100		982.3		110	70	130	0	0	

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: lcs-61315	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61315			RunNo: 79869						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809764		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			B
Toluene	0.88	0.050	1.000	0	88.1	80	120			B
Ethylbenzene	0.91	0.050	1.000	0	90.7	80	120			B
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			B
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

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

Sample ID: mb-61317	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61317			RunNo: 79857						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809931		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Sample ID: LCS-61317	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61317			RunNo: 79857						
Prep Date: 7/14/2021	Analysis Date: 7/16/2021			SeqNo: 2809932		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.9	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Qualifiers:

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

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

Page 22 of 23

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

WO#: 2107642

26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

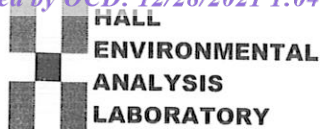
Sample ID: 2107642-008ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: TP6-16	Batch ID: 61317		RunNo: 79857							
Prep Date: 7/14/2021	Analysis Date: 7/16/2021		SeqNo: 2809935		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual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

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

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2107642

RcptNo: 1

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

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

Reviewed By: JR 7/14/21

Chad
Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: TMC. 7.14.21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: GHD

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:

Hornbaker BA Battery

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2 1.1-0.2-0.9

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

Container Type and #

402. Jar 1

Preservative Type

N/A

HEAL No.

013

Date Time Matrix Sample Name

7/13/21 1315 S TP11-8

1325 TP11-12

1335 TP11-15

1345 TP11-18

1350 TP11-20

1410 TP13-7

1430 TP13-14

1445 TP13-20

1520 TP15-14

1530 TP15-16

1540 TP15-20

Date:

7/13/21

Relinquished by:

[Signature]

Received by:

[Signature]

Date

7/13/21

Time

1730

Date:

7/19/21

Relinquished by:

[Signature]

Received by:

[Signature]

Date

7/19/21

Time

0730

Analysis Request

BTX / MTBE / TMBs (8021)

X

TPH:8015D(GRO / DRO / MRO)

X

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

X Chloride Method 300

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

Direct Bill to EOG Chase Settle

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



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

July 28, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2107732

Dear Tom Larson:

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

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP17-8

Project: Hornbaker BA Battery

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

Lab ID: 2107732-001

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP17-14

Project: Hornbaker BA Battery

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

Lab ID: 2107732-002

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP17-20

Project: Hornbaker BA Battery

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

Lab ID: 2107732-003

Matrix: SOIL

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

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

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

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

Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP19-10

Project: Hornbaker BA Battery

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

Lab ID: 2107732-004

Matrix: SOIL

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

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

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

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

Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP19-14

Project: Hornbaker BA Battery

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

Lab ID: 2107732-005

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP23-12

Project: Hornbaker BA Battery

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

Lab ID: 2107732-006

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP23-14

Project: Hornbaker BA Battery

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

Lab ID: 2107732-007

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP26-8

Project: Hornbaker BA Battery

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

Lab ID: 2107732-008

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP26-16

Project: Hornbaker BA Battery

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

Lab ID: 2107732-009

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP26-20

Project: Hornbaker BA Battery

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

Lab ID: 2107732-010

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP27-4

Project: Hornbaker BA Battery

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

Lab ID: 2107732-011

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP27-11

Project: Hornbaker BA Battery

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

Lab ID: 2107732-012

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP27-16

Project: Hornbaker BA Battery

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

Lab ID: 2107732-013

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP22-4

Project: Hornbaker BA Battery

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

Lab ID: 2107732-014

Matrix: SOIL

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

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

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

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

Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP22-7

Project: Hornbaker BA Battery

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

Lab ID: 2107732-015

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP22-14

Project: Hornbaker BA Battery

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

Lab ID: 2107732-016

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP22-20

Project: Hornbaker BA Battery

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

Lab ID: 2107732-017

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP28-8

Project: Hornbaker BA Battery

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

Lab ID: 2107732-018

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP28-12

Project: Hornbaker BA Battery

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

Lab ID: 2107732-019

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2107732

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP28-20

Project: Hornbaker BA Battery

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

Lab ID: 2107732-020

Matrix: SOIL

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

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

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

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

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

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

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

Sample ID: LCS-61435	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61435	RunNo: 79937								
Prep Date: 7/20/2021	Analysis Date: 7/20/2021	SeqNo: 2812834 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.0	90	110			

Qualifiers:

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

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

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

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61367	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61367	RunNo: 79892								
Prep Date: 7/16/2021	Analysis Date: 7/17/2021	SeqNo: 2810639 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Sample ID: LCS-61367	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61367	RunNo: 79892								
Prep Date: 7/16/2021	Analysis Date: 7/17/2021	SeqNo: 2810640 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.4	68.9	141			
Surr: DNOP	4.6		5.000		92.7	70	130			

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

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

Sample ID: MB-61383	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61383	RunNo: 79895								
Prep Date: 7/17/2021	Analysis Date: 7/19/2021	SeqNo: 2812460 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107732

28-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: LCS-61383	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61383	RunNo: 79895								
Prep Date: 7/17/2021	Analysis Date: 7/19/2021	SeqNo: 2812461	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.7	68.9	141			
Surr: DNOP	4.9		5.000		97.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

Sample ID: mb-61351	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61351				RunNo: 79869					
Prep Date: 7/15/2021	Analysis Date: 7/16/2021				SeqNo: 2809648	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	70	130			

Sample ID: mb-61346	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61346				RunNo: 79857					
Prep Date: 7/15/2021	Analysis Date: 7/17/2021				SeqNo: 2809887	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.8	70	130			

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

Sample ID: mb-61362	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2810954	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.5	70	130			

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

Qualifiers:

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

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

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

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

Sample ID: 2107732-018amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP28-8	Batch ID: 61362				RunNo: 79883					
Prep Date: 7/15/2021	Analysis Date: 7/19/2021				SeqNo: 2810958	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.56	0	92.0	61.3	114	4.36	20	
Surr: BFB	1000		982.3		105	70	130	0	0	

Qualifiers:

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

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

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

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

Sample ID: mb-61346	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61346			RunNo: 79857						
Prep Date: 7/15/2021	Analysis Date: 7/17/2021			SeqNo: 2809955		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: LCS-61346	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61346			RunNo: 79857						
Prep Date: 7/15/2021	Analysis Date: 7/17/2021			SeqNo: 2809956		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

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

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

WO#: 2107732

28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: mb-61362	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61362	RunNo: 79883								
Prep Date: 7/15/2021	Analysis Date: 7/19/2021	SeqNo: 2811008 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: LCS-61362	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61362	RunNo: 79883								
Prep Date: 7/15/2021	Analysis Date: 7/19/2021	SeqNo: 2811009 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

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

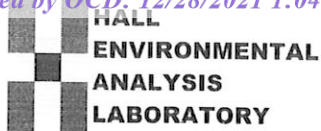
Sample ID: 2107732-019amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP28-12	Batch ID: 61362	RunNo: 79883								
Prep Date: 7/15/2021	Analysis Date: 7/19/2021	SeqNo: 2811013 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.5	80	120	3.27	20	
Toluene	0.87	0.050	1.000	0	87.2	80	120	3.79	20	
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120	4.23	20	
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120	3.62	20	
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130	0	0	

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2107732

RcptNo: 1

Received By: Cheyenne Cason 7/15/2021 7:35:00 AM

Completed By: Sean Livingston 7/15/2021 9:10:13 AM

Reviewed By: *SM 7/15/21*

Chad
Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *SPA 7.15.20*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good				

Chain-of-Custody Record

Client: GHD

Turn-Around Time:

5 Days

☒ Standard☐ Rush

Project Name:

Hornbaker BA Battery

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Zach Comino

Heath Boyd

On Ice:

☒ Yes☐ No

of Coolers:

1

Cooler Temp (including CF):

45-0-4.5

Container

Preservative

Type and #

4oz. Jar 1

N/A

HEAL No.

2107732

Date Time Matrix Sample Name

7/14/21 750 S TP17-8

800 TP17-14

815 TP17-20

900 TP19-10

910 TP19-14

935 TP23-12

945 TP23-14

1010 TP26-8

1030 TP26-16

1040 TP26-20

1115 TP27-4

1130 TP27-11

Date Time Relinquished by:

7/14/21 1640

Date Time Relinquished by:

7/14/21 1900

Date Time Relinquished by:

7/14/21 1900

Date Time Relinquished by:

7/14/21 1900

Date Time Relinquished by:

7/14/21 1900

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7/14/21 1900

Date Time Relinquished by:

7/14/21 1900

Date Time Relinquished by:

7/14/21 1900

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 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

X Chloride Method 300

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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

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

Chain-of-Custody Record

Client: GHD

Turn-Around Time:

5 Days

☒ Standard ☐ Rush

Project Name:

Hornbaker BA Battery

Project #:

11228980

Mailing Address:

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

Phone #:

(505)377-4218

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

QA/QC Package:

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

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Zach Comino Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CFI): 4.5-0.4.5

Container Type and #

4oz. Jar 1

Preservative Type

N/A

HEAL No.

013

Date Time Matrix Sample Name

7/14/21 1150 S TP27-16

7/13/21 1315 TP22-4

7/13/21 1320 TP22-7

7/13/21 1330 TP22-14

7/13/21 1345 TP22-20

7/14/21 1425 TP28-8

7/14/21 1430 TP28-12

7/14/21 1445 TP28-20

Date Time

7/14/21 1640

Relinquished by:

[Signature]

Relinquished by:

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Date Time

7/14/21 1900

Relinquished by:

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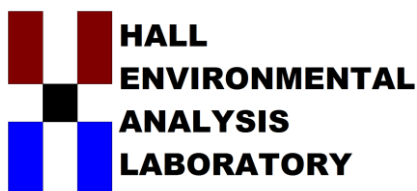
7/14/21 0735

Received by:

[Signature]

Date Time

7/14/21 0735



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

July 22, 2021

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

RE: Hornbaker BA Battery

OrderNo.: 2107835

Dear Tom Larson:

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 2107835

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107835

Lab ID: 2107835-001

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

Client Sample ID: TP29-S

Matrix: SOIL

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

Lab ID: 2107835-002

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

Client Sample ID: TP29-2

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107835

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107835

Lab ID: 2107835-003

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

Client Sample ID: TP30-S

Matrix: SOIL

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

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

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

Analytical Report

Lab Order: 2107835

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery

Lab Order: 2107835

Lab ID: 2107835-004

Collection Date: 7/15/2021 8:35:00 AM

Client Sample ID: TP30-2

Matrix: SOIL

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

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

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

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

WO#: 2107835

23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

Qualifiers:

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

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

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

WO#: 2107835

23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: MB-61405	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 61405		RunNo: 79945							
Prep Date: 7/19/2021	Analysis Date: 7/20/2021		SeqNo: 2813316		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	70	130			

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

Qualifiers:

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

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

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

WO#: 2107835

23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

Sample ID: mb-61386	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 61386			RunNo: 79883						
Prep Date: 7/17/2021	Analysis Date: 7/20/2021			SeqNo: 2810968	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.1	70	130			

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

Qualifiers:

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

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

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

WO#: 2107835

23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

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

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

Sample ID: mb-61386	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61386			RunNo: 79883						
Prep Date: 7/17/2021	Analysis Date: 7/20/2021			SeqNo: 2811025		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

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

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: **GHD Midland**Work Order Number: **2107835**RcptNo: **1**Received By: **Cheyenne Cason**

7/16/2021 7:40:00 AM

Completed By: **Isaiah Ortiz**

7/16/2021 9:11:22 AM

Reviewed By:

J2 7/16/21

Cason

I-Ortiz

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **TMC 7.16.21**

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

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

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 69191

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 69191
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Characterization report received. Remediation plan due 03/16/2022.	2/16/2022