

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	nAPP2115333378
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 # nAPP2115333378
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.71497 Longitude -104.43501
(NAD 83 in decimal degrees to 5 decimal places)

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

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

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Lucid Energy)

Nature and Volume of Release

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

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

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

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

Initial Response

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 11/29/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 11/29/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jennifer Nobui Date: 12/20/2021

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

Signature: Jennifer Nobui Date: 12/20/2021

Incident ID	nAPP2115333378
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Closure

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

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

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

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

Printed Name: Chase Settle

Title: Rep Safety & Environmental Sr

Signature: Chase Settle

Date: 05/26/2022

email: Chase_Settle@eogresources.com

Telephone: 575-748-1471

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: Jennifer Nobui

Date: 06/01/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

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

Our ref: 11228976

May 26, 2022

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

Re: **Site Closure Report**
Gerard AW Battery Release Site
EOG Resources Inc.
Incident ID: nAPP2115333378
O-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 Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, remediation, and analyses in the affected area at the EOG Gerard AW Battery Release Site (Site). The Site is located in Unit Letter O Section 25 of Township 18 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.71497 N latitude and 104.43501 W longitude. The release occurred on private surface owned by Lucid Energy. Figure 1, Site Location Map, depicts the Site location. The EOG Battery area and other site details are depicted on Figure 2, Site Assessment and Proposed Excavation Area.

2. Background Information

A C-141 initial report 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 equipment removal associated with this location. Soils within the former battery area appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to file a C-141 for this suspect release location.

A Site Characterization and Remediation Work Plan dated November 29, 2021 was submitted to the NMOCD for consideration. The NMOCD approved the work plan with no conditions on December 20, 2021 and EOG was given until May 20, 2022 to complete the work. Remediation analytical results were still pending with the lab on May 20, 2022 and EOG submitted a Site Remediation Update dated May 20, 2022 to the NMOCD. The Release Notification, Site Assessment/Characterization, Remediation Plan, and Closure portions of Form C-141 for Incident Number nAPP2115333378 are attached to the front of this report.

3. Groundwater and Site Characterization

The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico. GHD characterized the Site according to Table I, 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 an area of low karst potential. One water well was located within one half mile radius of the Site; the water well located approximately 0.32 miles from the site, has a recorded GW depth of one hundred ninety-four (194) feet. No other receptors (playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area with depth to groundwater greater than one hundred (100) feet and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table 1 in NMAC 19.15.29.12. The Site characterization documentation (Well Log, Karst Potential, FEMA, Points of Diversion, Significant Water Course, and Wetlands maps) are provided in Attachment A, Site Characterization Documentation. The soil closure criteria are listed below:

General Site Characterization and Groundwater:

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

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

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

4. Initial Soil Delineation Assessment Summary and Findings

On July 1, 2021, GHD installed three (3) hand borings (HA), HA1 through HA3, within the suspected impacted area. Soil samples were collected at two (2) feet below ground surface. Soil samples were field screened for VOCs and chloride concentrations. HA1 and HA2 had VOC detections over 800 ppm. HA3 had a chloride concentration of 3,140 ppm.

On June 17, June 21, and July 8, 2021, GHD installed one (1) hand boring (HA1), and twelve (12) test pits (TP1 through TP12), within and around the suspected impacted area. Soil samples were collected at depths ranging from surface to twenty (20) feet below surface. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated TPH concentrations above 2,500 mg/kg at the TP9 location at two (2) feet below ground surface. None of the other samples collected exhibited benzene, BTEX, TPH, or chloride concentrations above Table I closure criteria.

Figure 2, Site Assessment and Proposed Excavation Area, 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 D.

5. Excavation, Waste Management and Confirmation Sampling

GHD and Standard Safety and Supply (SS) mobilized to the site on March 3, 2022, to excavate the affected soils. Excavation and confirmation sampling activities continued through May 20, 2022, and the extents were modified based off ongoing analytical sample results (discussed below). The area containing affected soil was excavated to depths ranging from approximately four (4) to twenty (20) feet below grade. During excavation activities test pit one (TP1) was deepened to fourteen (14) ft bgs and two (2) additional test pits were installed within the area to be excavated and samples were collected at varying depths (TP1-13', TP1-14', XTP-9, XTP-16', and XTP-17'). As shown in Figure 3, a total of sixty-eight (68) sidewall composite, and seventy-four (74) bottom hole composite confirmation samples were collected. Areas where sidewall and bottom hole composite samples (SW-4, SW-4A, SW-6, SW-32 SWX-2, SWX-3, SWX-6, SWX-10, SWX-12, SWX-13, BH-16, BH-23, BH-28, BH-29, BH-31, BH-39, BH-60, BH-60A, and Ramp-4) exceeded Table I closure criteria were excavated further and re-sampled. One hundred twenty-nine (129) confirmation samples were taken to HEAL in Albuquerque, New Mexico, thirteen (13) of the confirmation samples were taken to Cardinal Laboratories in Hobbs, New Mexico. All samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. All confirmation samples collected as per the approved work plan. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment D. Analytical results are summarized in Table 1.

Analytical results indicated seven (7) of the fifty-nine (59) initial bottom hole confirmation samples exhibited exceedances above Table I closure criteria for groundwater greater than one hundred (100) feet; BH-16 (14'), BH-23 (14'), BH-28 (8'), BH-29 (8'), BH-31 (8'), BH-39 (4'), and Ramp-4 (4-14'). These areas were excavated further and resampled; BH-16A (16'), BH-23A (15'), BH-28A (20'), BH-29A (16'), BH-31A (9'), BH-56 (Ramp-4) (12-16'), and BH-60 (BH-39A) (9'). Three additional bottom hole samples were also collected BH-57 (12'), BH-58 (8'), and BH-59 (9'). Analytical results indicated one (1) bottom hole sample, BH-60, exhibited TPH concentrations above selected Table I closure criteria. This area was excavated further and resampled; BH-60A (12'), and two additional bottom hole samples were collected; BH-61 (4') and BH-62 (4') after further excavation of sidewalls. Analytical results indicated one (1) bottom hole sample, BH-60A, exhibited TPH concentrations above selected Table I closure criteria. This area was excavated further and resampled; BH-60B (16'). None of the final bottom hole confirmation samples exhibited benzene, BTEX, TPH, or chloride concentrations above the Table I closure criteria.

Analytical results indicated six (6) of the initial thirty-nine (39) sidewall composite samples exhibited exceedances above Table I closure criteria for 19.15.29.13 for restoration or Table I closure criteria for groundwater greater than one hundred (100) feet; SW-4, SWX-2, SWX-3, SWX-6, SWX-12, and SWX-13. These areas were excavated further and resampled (SW-4A, SWX-2A, SWX-3A, SWX-6A, SWX-12A, and SWX-13A). Sixteen (16) additional sidewall confirmation samples were also collected; SW-6 and SW-26 through SW-40. Two (2) of the sidewall confirmation resamples (SW-4A and SW-6) exhibited TPH concentrations above Table I closure criteria for 19.15.29.13 for restoration. These areas were excavated further and resampled (SW-4B and SW-6A).

Upon further review of the analytical results, it was determined that sidewall samples SW-32 and SWX-10 exhibited TPH concentrations above Table I closure criteria for groundwater greater than one hundred (100)

feet below ground surface. These areas were further excavated on May 19, 2022, and new confirmation samples were collected on May 20, 2022. Sidewall sample BHX-10 was completely excavated, and a new bottom hole sample was collected from that area and was identified as BH-63 and was collected from fifteen (15) to sixteen (16) feet below grade. Sidewall sample SW-32 was further excavated and SW-32A was collected and bottom hole sample BH-64 was collected from sixteen (16) feet from the newly exposed area. The analytical results indicated that all final confirmation samples were below Table I closure criteria.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 11,597.88 tons of impacted soil was disposed of at Lea Land, LLC, the waste manifests from February 24 through May 19, 2022, are available upon request and are not included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2. A photographic log is included as Attachment B. Confirmation Sampling Notifications are provided as Attachment C.

6. nAPP2115333378 Closure Request

Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCD guidelines and regulations. Based upon supporting documentation provided in this report, GHD, on behave of EOG, respectfully requests closure and no further regulatory actions for nAPP2115333378. Backfill activities have not been completed at this time but will be once backfill material is transported to the site.

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

Sincerely,

GHD



Nathan Reece
Environmental Scientist



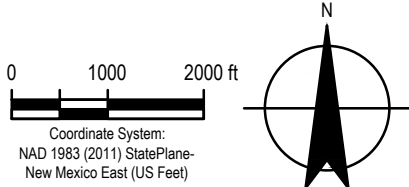
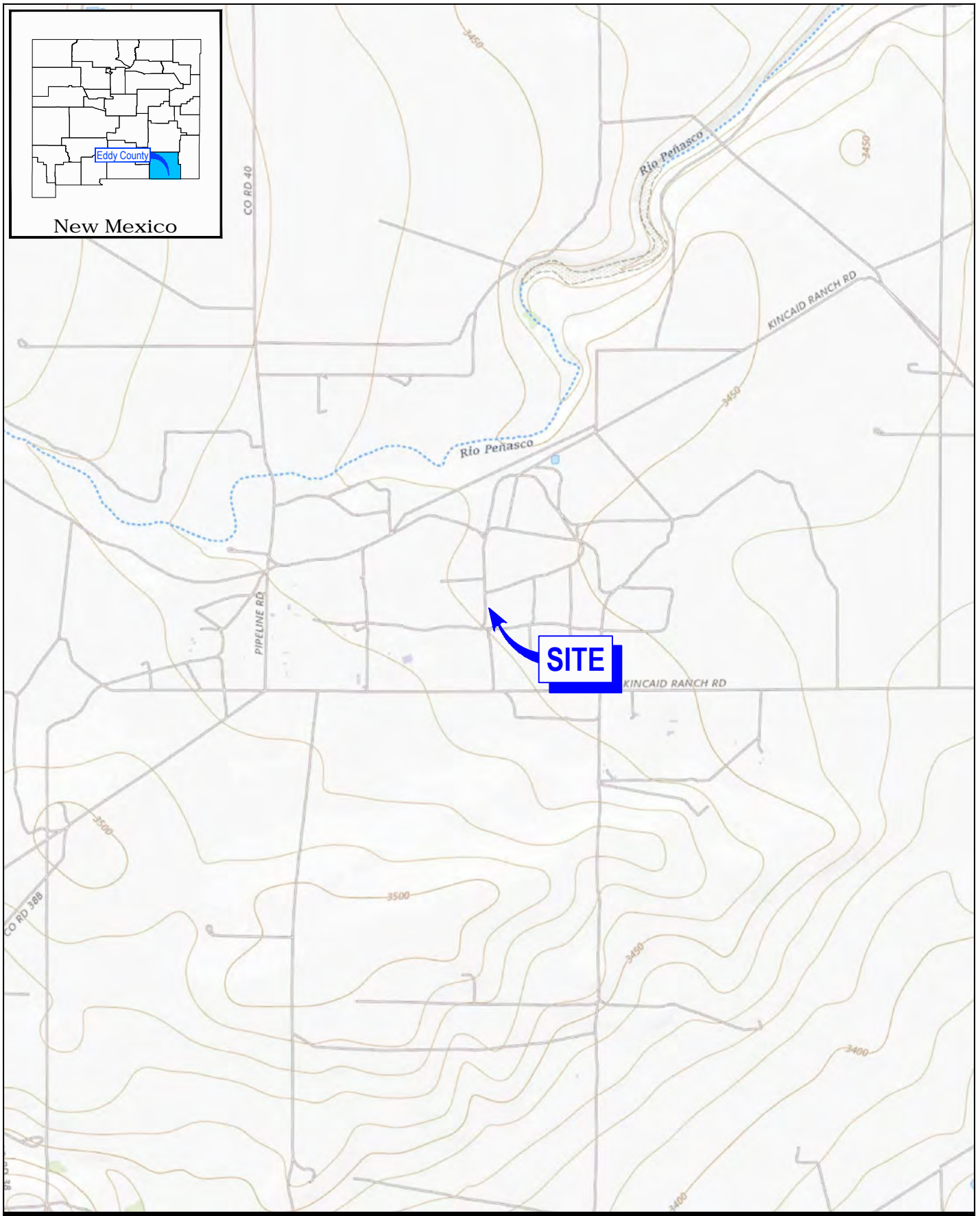
Becky Haskell.
Senior Project Manager

NR/bh/1

Encl. Figure 1 – Site Location Map
 Figure 2 – Site Assessment Sampling Map
 Figure 3 – Confirmation Sampling Map
 Table 1 – Summary of Soil Analytical Data
 Table 2 – Soil Disposal Summary Table
 Attachment A – Site Characterization Documentation
 Attachment B – Photographic Log
 Attachment C – Confirmation Sampling Notifications
 Attachment D – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle

Figures

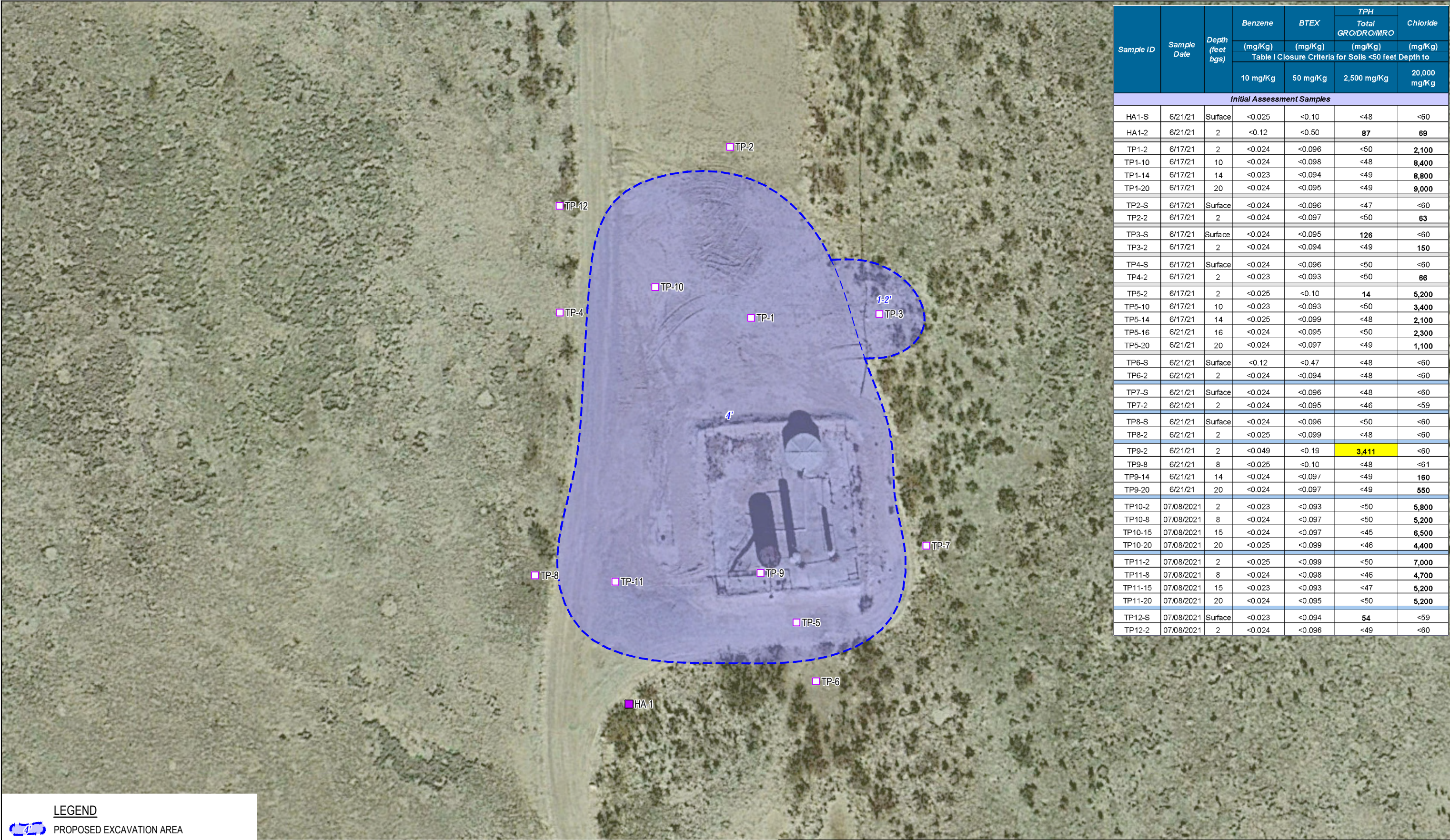


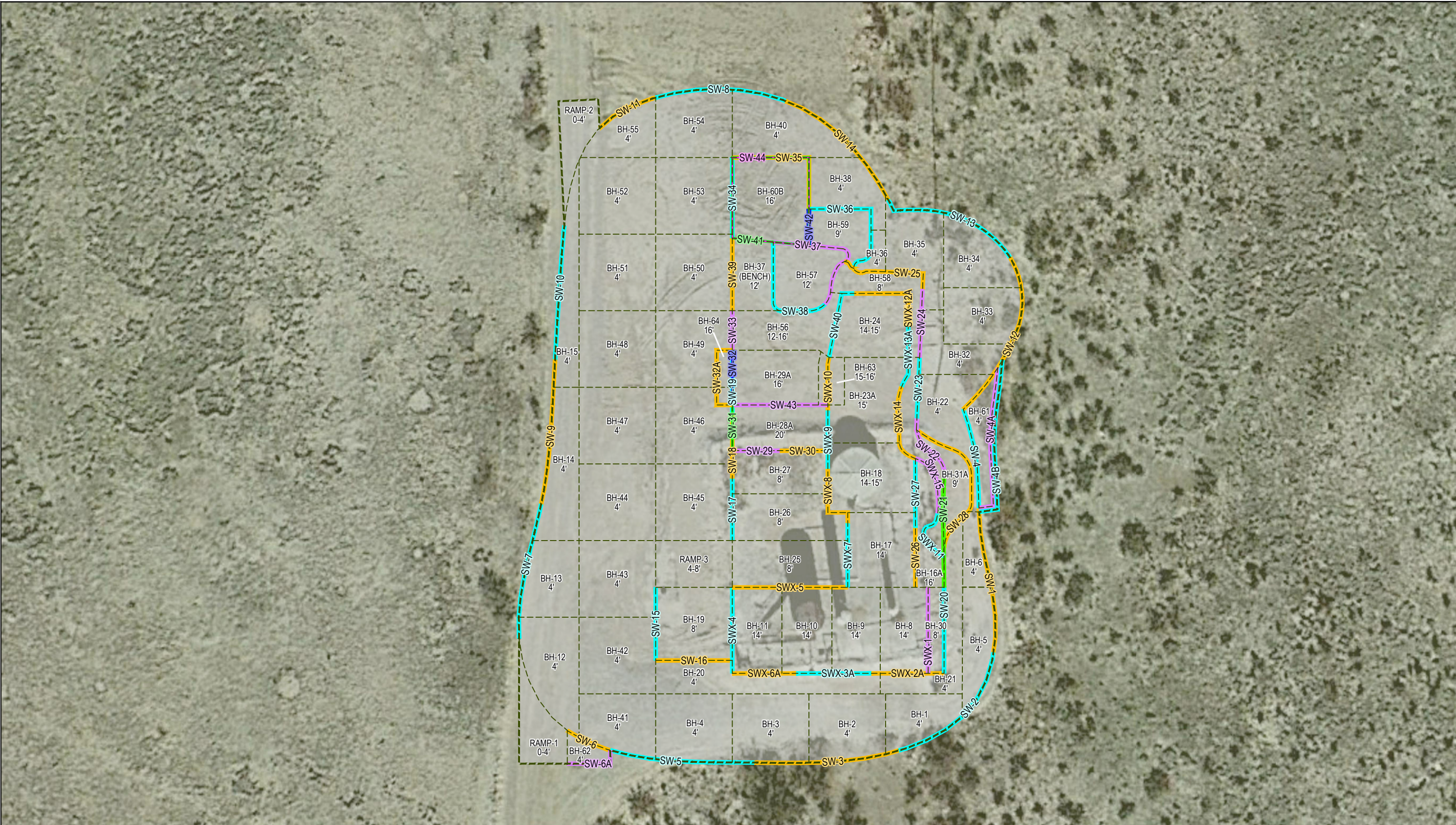
EOG RESOURCES
EDDY COUNTY, NEW MEXICO
GERARD AW BATTERY

Project No. 11228976
Date October 2021

SITE LOCATION MAP

FIGURE 1



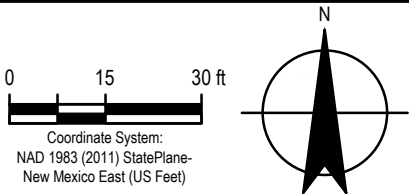


LEGEND

- EXCAVATED AREA
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE

NOTES:

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



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
GERARD AW BATTERY

CONFIRMATION SAMPLING MAP

Project No. 11228976
Date May 2022

FIGURE 3

Tables

Table 1
Summary of Soil Analytical Data
Gerard AW Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft 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 Soil >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg	
Initial Assessment Samples												
HA1-S	6/21/2021	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<48	<48	<60
HA1-2	6/21/2021	2	<0.12	<0.25	<0.25	<0.50	<0.50	<25	24	63	87	69
TP1-2	6/17/2021	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	2,100
TP1-10	6/17/2021	10	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	8,400
TP1-14	6/17/2021	14	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	<49	<49	8,800
TP1-20	6/17/2021	20	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.8	<49	<49	9,000
TP2-S	6/17/2021	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<47	<47	<60
TP2-2	6/17/2021	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	63
TP3-S	6/17/2021	Surface	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	16	110	126	<60
TP3-2	6/17/2021	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.9	<49	<49	150
TP4-S	6/17/2021	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	<60
TP4-2	6/17/2021	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<10	<50	<50	66
TP5-2	6/17/2021	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	14	<48	14	5,200
TP5-10	6/17/2021	10	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<10	<50	<50	3,400
TP5-14	6/17/2021	14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	2,100
TP5-16	6/21/2021	16	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.9	<50	<50	2,300
TP5-20	6/21/2021	20	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	1,100
TP6-S	6/21/2021	Surface	<0.12	<0.24	<0.24	<0.47	<0.47	<24	<9.6	<48	<48	<60
TP6-2	6/21/2021	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<48	<48	<60
TP7-S	6/21/2021	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	<60
TP7-2	6/21/2021	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.3	<46	<46	<59
TP8-S	6/21/2021	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<50	<60
TP8-2	6/21/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP9-2	6/21/2021	2	<0.049	<0.097	<0.097	<0.19	<0.19	11	2,000	1,400	3,411	<60
TP9-8	6/21/2021	8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	<61
TP9-14	6/21/2021	14	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	160
TP9-20	6/21/2021	20	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	550

Table 1
Summary of Soil Analytical Data
Gerard AW Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft 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 Soil >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
TP10-2	7/8/2021	2	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<50	<50	5,800
TP10-8	7/8/2021	8	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	5,200
TP10-15	7/8/2021	15	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.0	<45	<45	6,500
TP10-20	7/8/2021	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	4,400
TP11-2	7/8/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	7,000
TP11-8	7/8/2021	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	4,700
TP11-15	7/8/2021	15	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.5	<47	<47	5,200
TP11-20	7/8/2021	20	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	5,200
TP12-S	7/8/2021	Surface	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	54	54	<59
TP12-2	7/8/2021	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	<60
Test Pit During Excavation 3/2022												
TP1-13'	3/3/2022	13	<0.087	<0.17	<0.17	<0.35	<0.35	<17	29	<48	29	310
TP1-14'	3/3/2022	14	<0.014	<0.029	<0.029	<0.057	<0.057	<2.9	<10	<50	<50	1,300
XTP-16'	3/9/2022	16	<0.086	<0.17	<0.17	<0.34	<0.34	<17	250	110	360	5,800
XTP-17'	3/9/2022	17	<0.10	<0.21	<0.21	<0.41	<0.41	<21	200	100	300	7,500
XTP-9	3/14/2022	9	<0.016	<0.032	<0.032	<0.064	<0.064	<3.2	<10	<50	<50	6,400
Bottom Hole Confirmation Samples												
BH-1	3/7/2022	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<49	<49	1,500
BH-2	3/7/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	29	<47	29	2,400
BH-3	3/7/2022	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	25	<49	25	1,200
BH-4	3/7/2022	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.3	<46	<46	930
BH-5	3/8/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	9.7	<46	9.7	920
BH-6	3/8/2022	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	110	100	210	970
BH-8	3/14/2022	14	<0.12	<0.24	<0.24	<0.48	<0.48	<24	480	200	680	2,600
BH-9	3/14/2022	14	<0.12	<0.24	<0.24	<0.48	<0.48	<24	810	310	1,120	1,500
BH-10	3/14/2022	14	<0.12	<0.24	<0.24	<0.48	<0.48	<24	68	51	119	1,300
BH-11	3/14/2022	14	<0.12	<0.24	<0.24	<0.49	<0.49	<24	360	170	530	710
BH-12	3/17/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	510
BH-13	3/17/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	1,100
BH-14	3/17/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	2,100

Table 1
Summary of Soil Analytical Data
Gerard AW Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft 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 Soil >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
BH-15	3/17/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	1,500
BH-16	3/23/2022	14	<0.12	<0.24	0.37	<0.49	0.37	34	1,190	430	1,564	4,890
BH-16A	4/19/2022	16	<0.089	<0.18	<0.18	<0.36	<0.36	<18	76	<47	76	1,800
BH-17	3/22/2022	14	<0.025	<0.049	0.41	0.12	0.53	24	460	170	654	3,400
BH-18	3/23/2022	14-15	<0.12	<0.24	1.4	0.56	1.96	67	960	370	1,397	4,700
BH-19	3/21/2022	8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	500	220	720	1,900
BH-20	3/23/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	1,700
BH-21	3/23/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	120	100	220	2,600
BH-22	3/23/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	100	120	220	1,700
BH-23	3/24/2022	14	<0.12	<0.25	2.4	1.7	4.1	140	1,900	830	2,870	6,400
BH-23A	4/20/2022	15	<0.082	<0.16	<0.16	<0.33	<0.33	<16	260	110	370	9,000
BH-24	3/24/2022	14	<0.12	<0.25	<0.25	<0.50	<0.50	<25	660	240	900	7,900
BH-25	3/24/2022	8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	69	52	121	4,600
BH-26	3/24/2022	8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	150	87	237	2,400
BH-27	3/24/2022	8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	250	120	370	1,400
BH-28	3/24/2022	8	<0.12	<0.25	0.42	<0.49	0.42	30	1,290	570	1,890	2,990
BH-28A	4/20/2022	20	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<9.6	<48	<48	9,400
BH-29	3/24/2022	8	<0.12	<0.24	0.41	0.69	1.1	35	1,990	890	2,825	4,490
BH-29A	4/21/2022	16	<0.12	<0.25	<0.25	<0.50	<0.50	<25	1,000	470	1,470	7,300
BH-30	3/24/2022	8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	220	150	370	3,300
BH-31	3/24/2022	8	<0.024	<0.048	<0.048	0.13	0.13	31	1,490	730	2,161	2,190
BH-31A	4/20/2022	9	<0.066	<0.13	<0.13	<0.26	<0.26	<13	<9.8	<49	<49	1,700
BH-32	3/25/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	140	280	420	1,300
BH-33	3/25/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<49	<49	1,200
BH-34	3/25/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	32	86	118	1,600
BH-35	3/25/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	450	380	830	1,100
BH-36	3/25/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	640	430	1,070	3,800
BH-37	3/25/2022	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	440	290	730	4,400
BH-38	3/25/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	1,000
BH-39	3/24/2022	4	<0.024	<0.048	0.16	<0.096	0.52	22	1,190	640	1,762	1,790
BH-60 (BH-39A)	4/21/2022	9	<0.025	<0.049	<0.049	<0.099	<0.099	14	3,190	1,790	4,844	4,390

Table 1
Summary of Soil Analytical Data
Gerard AW Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft 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 Soil >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
BH-60A (BH-39B)	5/10/2022	12	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,880	432	2,342	8,000
BH-60B (BH-39C)	5/16/2022	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	8,000
BH-40	3/25/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	40	59	99	1,000
BH-41	3/28/2022	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.8	<49	<49	820
BH-42	3/28/2022	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	58	65	123	1,200
BH-43	3/28/2022	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	29	<50	29	2,300
BH-44	3/28/2022	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	53	<49	53	2,500
BH-45	3/28/2022	4	<0.12	<0.25	<0.25	<0.49	<0.49	<25	340	180	520	1,800
BH-46	3/28/2022	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	270	160	430	3,100
BH-47	3/28/2022	4	<0.12	<0.24	<0.24	<0.47	<0.47	<24	150	93	243	4,600
BH-48	3/28/2022	4	<0.12	<0.25	<0.25	<0.49	<0.49	<25	290	160	450	4,800
BH-49	3/28/2022	4	<0.12	<0.25	<0.25	<0.49	<0.49	<25	630	330	960	3,000
BH-50	3/28/2022	4	<0.12	<0.25	<0.25	<0.49	<0.49	<25	710	450	1,160	3,500
BH-51	3/28/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	68	50	118	4,600
BH-52	3/28/2022	4	<0.12	<0.25	<0.25	<0.49	<0.49	<25	100	73	173	4,100
BH-53	3/28/2022	4	<0.12	<0.23	<0.23	<0.47	<0.47	<23	260	<250	260	2,700
BH-54	3/28/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	23	<48	23	2,400
BH-55	3/28/2022	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	35	<50	35	2,100
BH-57	4/21/2022	12	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	230	110	340	5,500
BH-58	4/21/2022	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	910
BH-59	4/21/2022	9	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	25	<48	25	6,000
BH-61	5/10/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	112	94.9	206.9	464
BH-62	5/10/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,550
BH-64	5/20/2022	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	121	13.6	134.6	6,880
Ramp-1	3/17/2022	0-4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	510
Ramp-2	3/17/2022	0-4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	470
Ramp-3	3/24/2022	4-8	<0.024	<0.048	0.060	<0.096	0.060	12	560	370	942	1,700
Ramp-4	3/24/2022	4-14	<0.12	<0.25	1.7	2.5	4.2	95	1,500	710	2,305	3,600
BH-56 (Ramp-4A)	4/21/2022	12-16	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	470	220	690	12,000
Sidewall Confirmation Samples												
SW-1	3/2/2022	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	170	300	470	260

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Gerard AW Battery
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Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
SW-2	3/2/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	120	230	350	110
SW-3	3/2/2022	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	13	<47	13	370
SW-4	3/14/2022	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	110	210	320	150
SW-4A	3/25/2022	Sidewall	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	420	1,100	1,520	100
SW-4B	5/10/2022	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
SW-5	3/14/2022	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	12	<50	12	<60
SW-6	4/18/2022	Sidewall	<0.049	<0.039	<0.039	<0.078	<0.078	<3.9	<3.9	<50	<50	1,900
SW-6A	5/10/2022	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.0	14.2	33.2	<16.0
SW-7	3/17/2022	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<48	<48	<61
SW-8	3/14/2022	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	460
SW-9	3/17/2022	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	<60
SW-10	3/17/2022	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	310
SW-11	3/17/2022	Sidewall	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	330.0
SW-12	3/25/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<49	<49	66
SW-13	3/25/2022	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	<60
SW-14	3/25/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<50	<50	220
SW-15	3/29/2022	Sidewall	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	82	62	144	370
SW-16	3/29/2022	Sidewall	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.9	<45	<45	520
SW-17	3/29/2022	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	12	<49	12	720
SW-18	3/29/2022	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<47	<47	480
SW-19	3/29/2022	Sidewall	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	17	<42	17	1,500
SW-20	3/29/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	110	140	250	3,700
SW-21	3/29/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	1,000
SW-22	3/29/2022	Sidewall	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	1,400
SW-23	3/29/2022	Sidewall	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	1,900
SW-24	3/29/2022	Sidewall	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.0	<45	<45	1,900
SW-25	3/29/2022	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<49	1,300
SW-26	4/20/2022	Sidewall	<0.085	<0.17	<0.17	<0.34	<0.34	19	290	110	419	2,300
SW-27	4/20/2022	Sidewall	<0.17	<0.034	<0.034	<0.068	<0.068	<3.4	280	160	440	3,500
SW-28	4/20/2022	Sidewall	<0.086	<0.17	<0.17	<0.35	<0.35	38	340	130	508	580
SW-29	4/20/2022	Sidewall	<0.017	<0.034	<0.034	<0.067	<0.067	<3.4	<9.7	<48	<48	2,800

Table 1
Summary of Soil Analytical Data
Gerard AW Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
SW-30	4/20/2022	Sidewall	<0.019	<0.037	<0.037	<0.074	<0.074	<3.7	<9.7	<49	<49	3,700
SW-31	4/20/2022	Sidewall	<0.017	<0.034	<0.034	<0.069	<0.069	<3.4	<9.8	<49	<49	5,000
SW-32	4/21/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	8.0	1,300	640	1,948	4,800
SW-32A	5/20/2022	Sidewall	<0.050	<0.050	<0.050	<0.0150	<0.300	<10	<10	<10	<10	1,620
SW-33	4/21/2022	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	13	<49	13	3,200
SW-34	4/21/2022	Sidewall	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<50	2,000
SW-35	4/21/2022	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	1,200
SW-36	4/21/2022	Sidewall	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	2,100
SW-37	4/21/2022	Sidewall	<0.12	<0.25	<0.25	<0.50	<0.50	<25	310	140	450	6,600
SW-38	4/21/2022	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	510	470	980	5,000
SW-39	4/21/2022	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<48	<48	4,100
SW-40	4/21/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	4,100
SW-41	5/10/2022	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	420	100	520	8,080
SW-42	5/16/2022	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,040
SW-43	5/16/2022	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,360
SW-44	5/16/2022	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,000
SWX-1	3/14/2022	Sidewall	<0.094	<0.19	<0.19	<0.38	<0.38	<19	680	280	960	4,500
SWX-2	3/14/2022	Sidewall	<0.092	<0.18	<0.18	<0.37	<0.37	<18	1,500	540	2,040	4,600
SWX-2A	3/29/2022	Sidewall	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	4,500
SWX-3	3/14/2022	Sidewall	<0.14	<0.27	<0.27	<0.54	<0.54	29	2,400	1,100	3,529	600
SWX-3A	3/29/2022	Sidewall	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	3,200
SWX-4	3/14/2022	Sidewall	<0.10	<0.20	<0.20	<0.41	<0.41	<20	610	320	930	680
SWX-5	3/14/2022	Sidewall	<0.017	<0.034	<0.034	<0.068	<0.068	<3.4	<9.5	<48	<48	2,800
SWX-6	3/14/2022	Sidewall	<0.085	<0.17	2.2	1.5	3.7	150	4,300	1,700	6,150	2,400
SWX-6A	3/29/2022	Sidewall	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<48	<48	1,300
SWX-7	3/29/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	14	<49	14	5,000
SWX-8	3/29/2022	Sidewall	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	950	380	1,330	3,200
SWX-9	3/29/2022	Sidewall	<0.11	<0.23	<0.23	<0.46	<0.46	<23	540	240	780	2,300
SWX-10	3/29/2022	Sidewall	<0.12	<0.23	0.91	0.47	1.38	63	3,600	1,300	4,363	3,800
BH-63 (SWX-10A)	5/20/2022	15-16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	90.4	<10.0	90.4	17,600
SWX-11	3/29/2022	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.8	<49	<49	2,000

Table 1
Summary of Soil Analytical Data
Gerard AW Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
SWX-12	3/29/2022	Sidewall	<0.12	<0.25	<0.25	<0.49	<0.49	54	2,200	1,000	3,254	5,300
SWX-12A	4/21/2022	Sidewall	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<45	<45	1,200
SWX-13	3/29/2022	Sidewall	<0.11	<0.23	<0.23	<0.46	<0.46	<23	1,100	550	1,650	6,000
SWX-13A	4/21/2022	Sidewall	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	930
SWX-14	3/29/2022	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	96	63	159	6,000
SWX-15	3/29/2022	Sidewall	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	11	<47	11	7,600

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.
9. --- = not defined
- B-BH-2

Sample Point Excavated

Table 2
Daily Disposal Summary
Gerard AW Battery
EOG Resources
Eddy, County, New Mexico

Date of Disposal	Total Pounds Disposed	Total Tons Disposed
2/24/2022	600,520	300.26
2/28/2022	1,861,100	930.55
3/1/2022	818,940	409.47
3/2/2022	1,266,100	633.05
3/4/2022	1,038,140	519.07
3/7/2022	1,607,420	803.71
3/8/2022	1,773,180	886.59
3/9/2022	1,644,300	822.15
3/10/2022	1,024,340	512.17
3/18/2022	1,488,820	744.41
3/21/2022	2,545,420	1,272.71
3/22/2022	751,080	375.54
3/23/2022	1,576,680	788.34
3/24/2022	475,800	237.90
3/25/2022	744,820	372.41
4/19/2022	311,100	155.55
4/20/2022	1,182,960	591.48
4/21/2022	838,280	419.14
4/22/2022	496,160	248.08
4/25/2022	385,340	192.67
4/26/2022	40,460	20.23
5/10/2022	198,120	99.06
5/13/2022	280,180	140.09
5/19/2022	246,500	123.25
Project Total	23,195,760	11,597.88

Attachment A

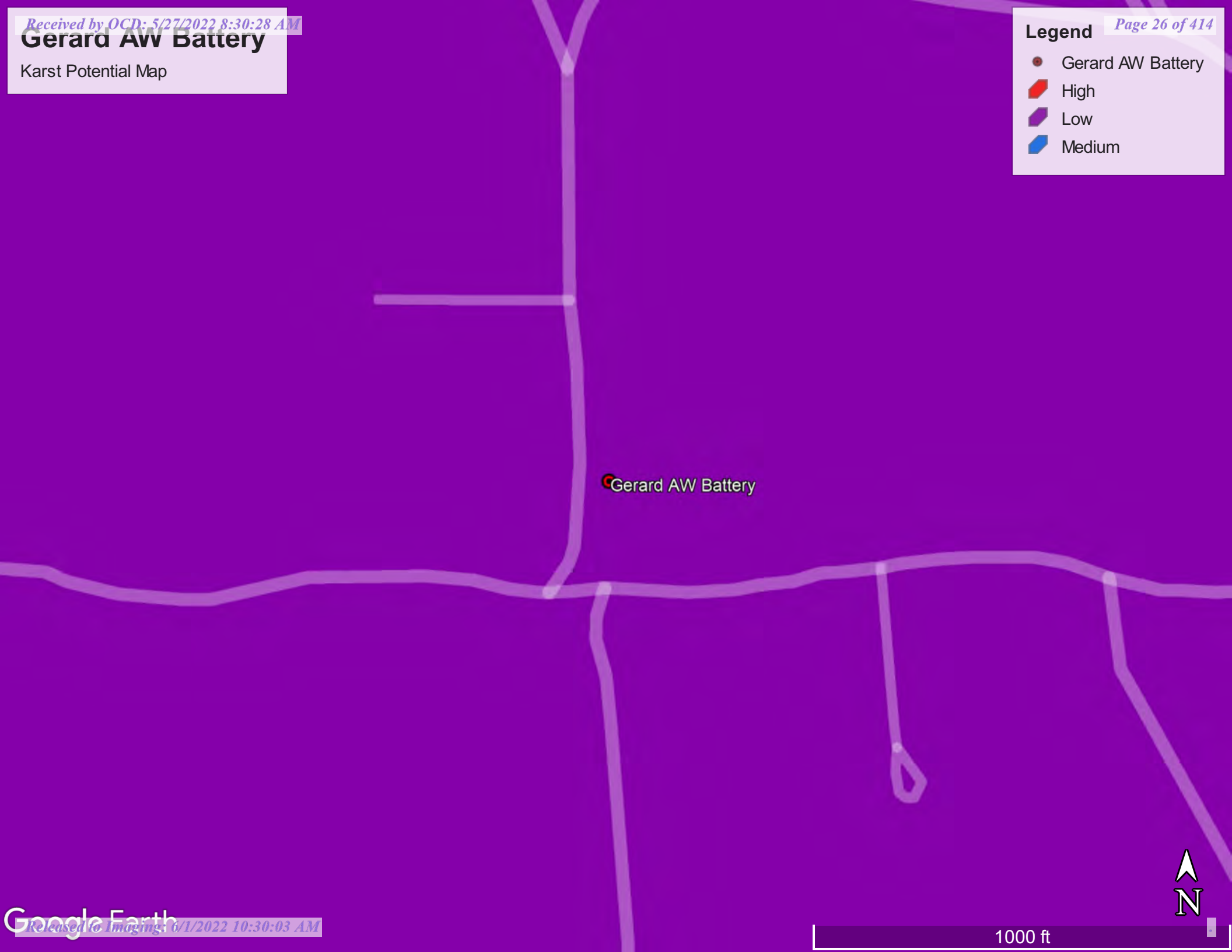
Site Characterization Documentation

Gerard AW Battery

Karst Potential Map

Legend

- Gerard AW Battery
- High
- Low
- Medium



Gerard AW Battery



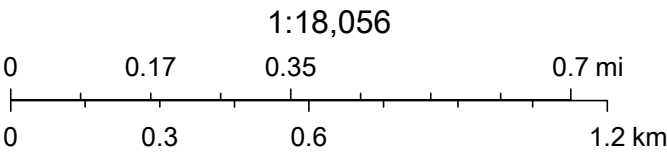
OSE PUBLIC PRINT



10/7/2021, 3:16:10 PM

GIS WATERS PODs

- Active
- Pending
- OSE District Boundary
- SiteBoundaries



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



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20642	RA 12548 POD1	4	4	3	25	18S	25E	552484	3619618

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E.

Drill Start Date: 11/07/2017	Drill Finish Date: 11/13/2017	Plug Date:
Log File Date: 12/14/2017	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 2 GPM
Casing Size: 4.50	Depth Well: 255 feet	Depth Water: 194 feet

Water Bearing Stratifications:		Top	Bottom	Description
		194	206	Shale/Mudstone/Siltstone
		206	255	Shale/Mudstone/Siltstone
Casing Perforations:		Top	Bottom	
		175	255	

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

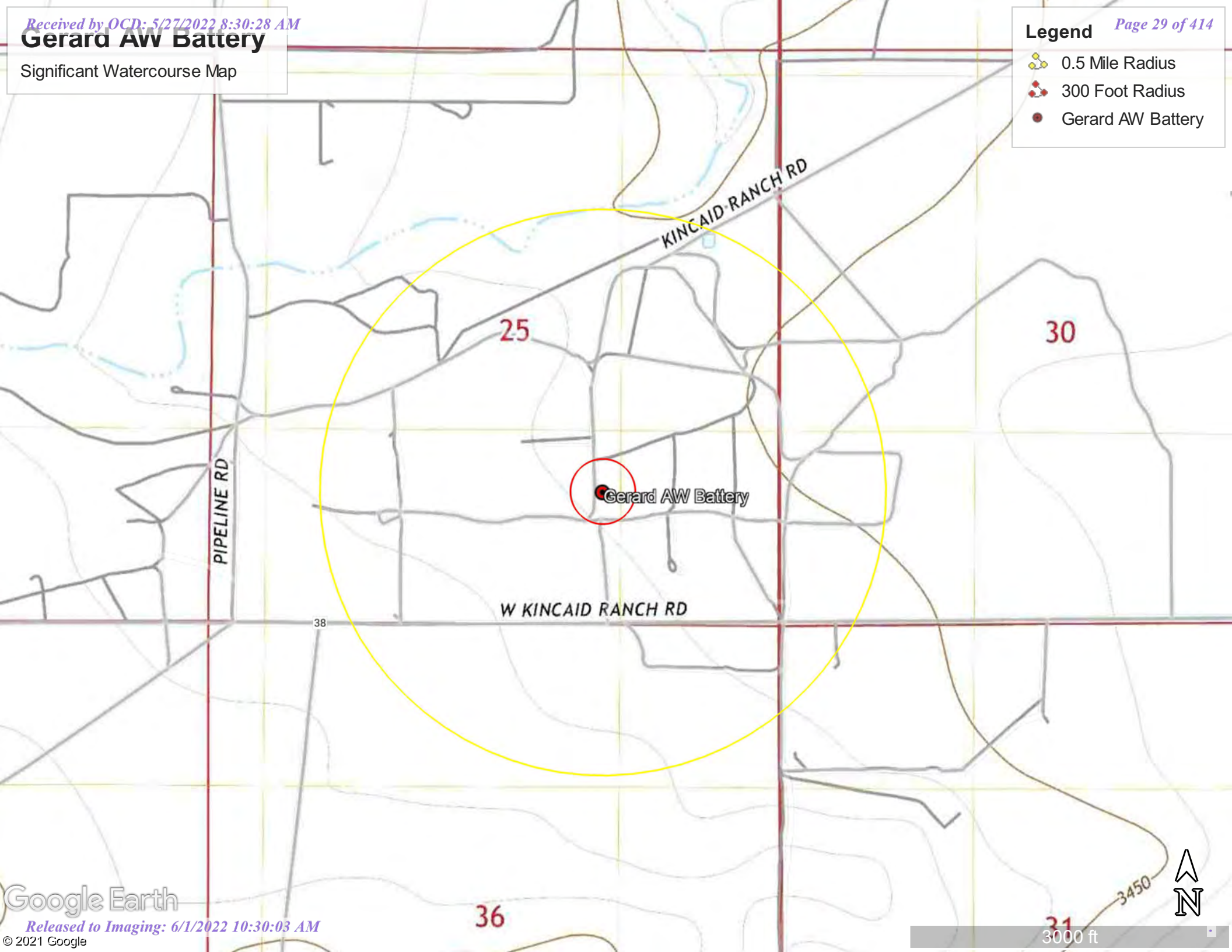
10/7/21 2:13 PM

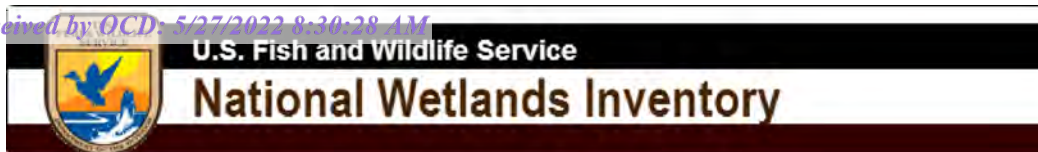
POINT OF DIVERSION SUMMARY

Gerard AW Battery

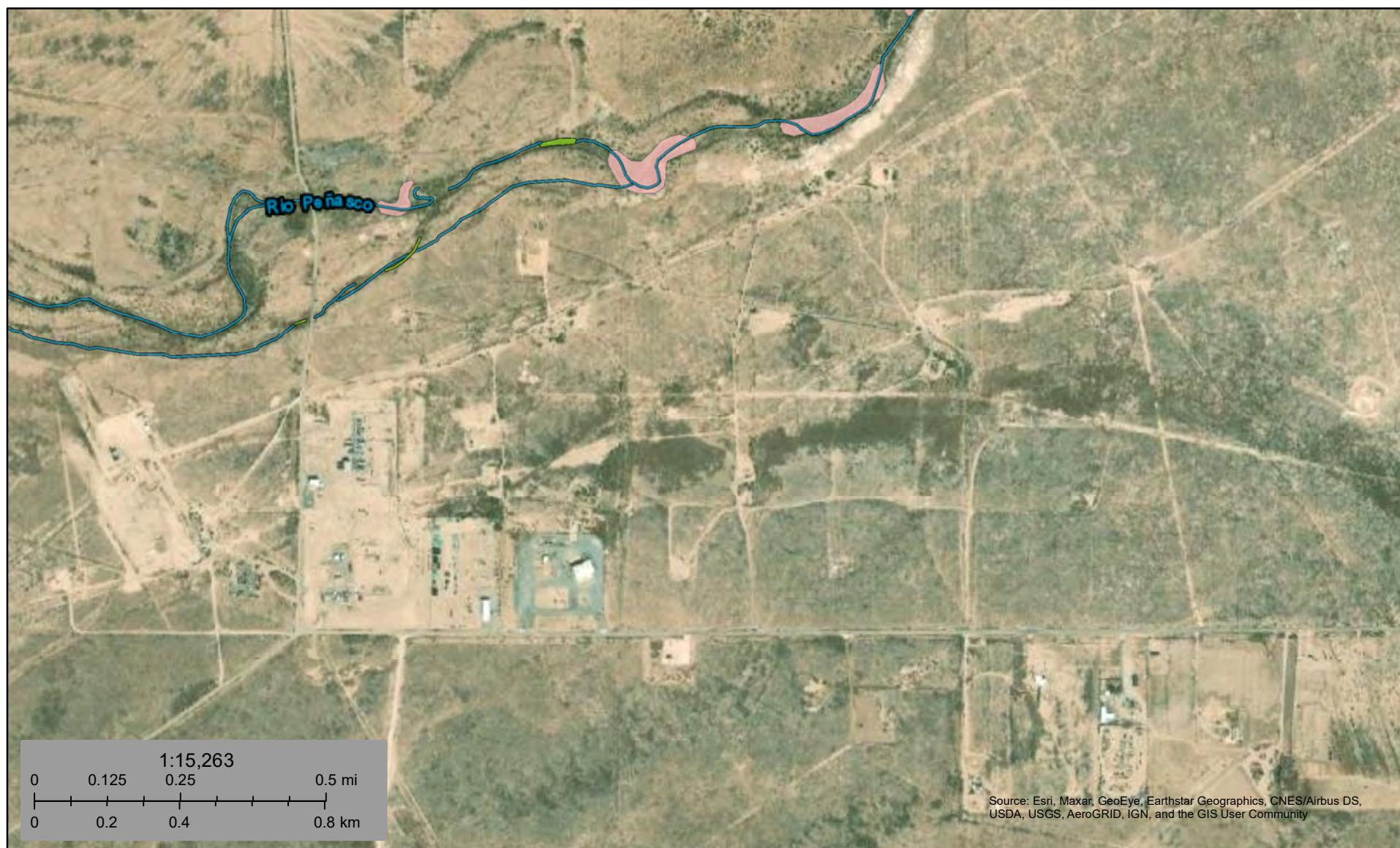
Significant Watercourse Map

- 0.5 Mile Radius
- 300 Foot Radius
- Gerard AW Battery





EOG Gerard AW Battery



October 7, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

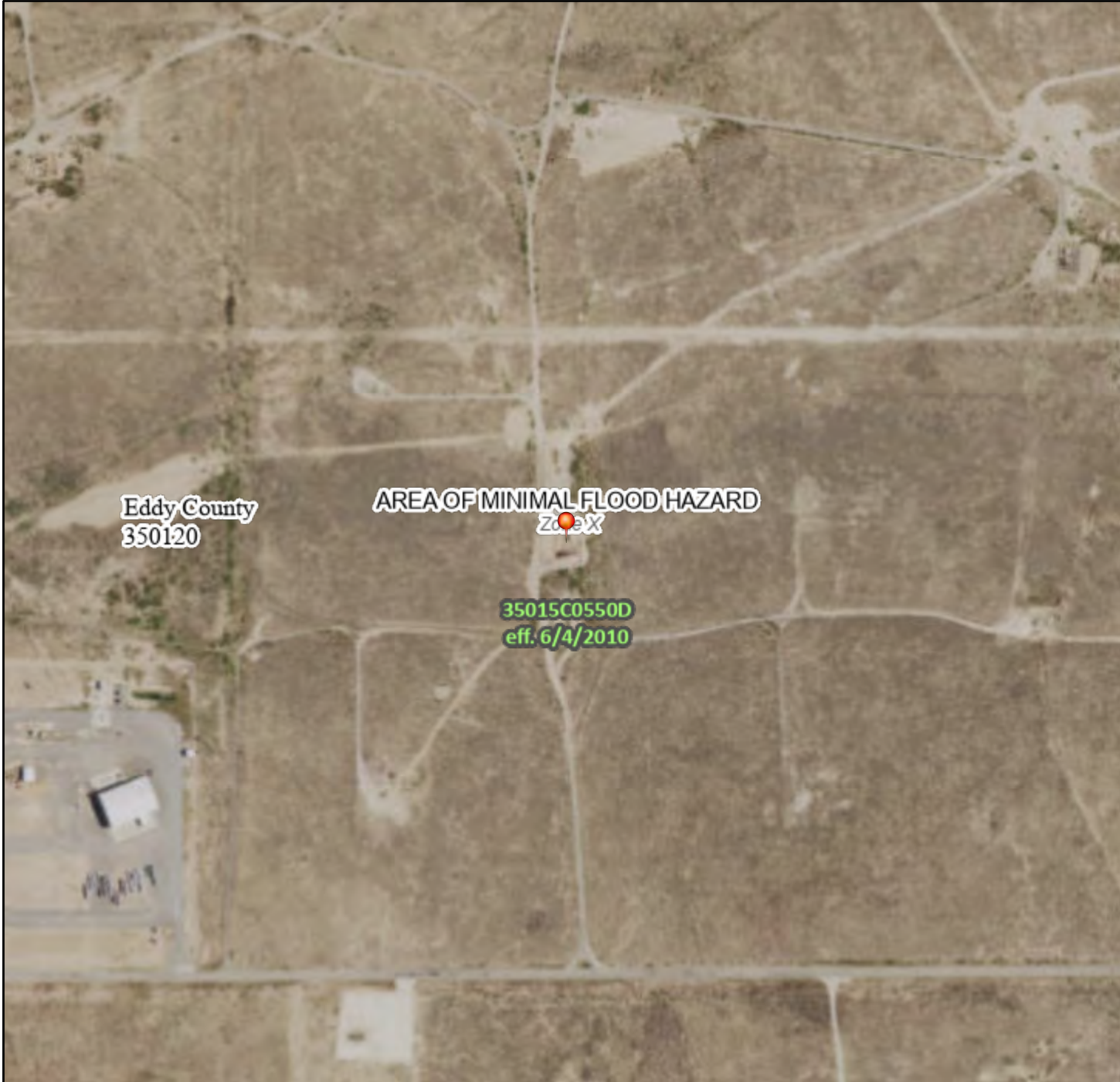
- Lake
- Other
- Riverine

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 FIRMMette



104°26'25"W 32°43'9"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		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 10/7/2021 at 4:49 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Attachment B Photographic Log



Site Photograph

EOG Gerard AW Battery Release Site.

GHD | Report for EOG | 11228976



Site Photograph

EOG Gerard AW Battery Release Site.

GHD | Report for EOG | 11228976

Attachment C

Confirmation Sampling Notifications

Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, February 24, 2022 11:32 AM
To: Becky Haskell; Zach Comino; Heath Boyd
Subject: FW: Gerard AW Battery (nAPP2115333378) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, February 24, 2022 10:22 AM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>
Subject: Gerard AW Battery (nAPP2115333378) Sampling Notification

Good morning,

EOG Resources, Inc. respectfully submits notification of sampling activities to be conducted at the below site.

Gerard AW Battery
O-25-18S-25E
Eddy County, NM
nAPP2115333378

Sampling will begin at 10:00 a.m. on Wednesday, March 2, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, March 3, 2022 3:49 PM
To: Becky Haskell; Zach Comino; Tom Larson
Subject: FW: Gerard AW Battery(nAPP2115333378) Sampling Notification

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, March 3, 2022 2:46 PM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>
Subject: Gerard AW Battery(nAPP2115333378) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling activities to be conducted at the below site.

Gerard AW Battery
O-25-18S-25E
Eddy County, NM
nAPP2115333378

Sampling will begin at 2:00 p.m. on Monday, March 7, 2022.

Thank you,

Miriam Morales

Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Wednesday, March 9, 2022 10:49 AM
To: Zach Comino; Becky Haskell
Subject: FW: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

Thank you,
Amber Griffin

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Wednesday, March 9, 2022 9:37 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Amber Griffin <Amber_Griffin@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: RE: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, March 9, 2022 9:22 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Amber Griffin <Amber_Griffin@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

EOG Resources, Inc. respectfully submits notification of sampling activities to be conducted at the below site.

Gerard AW Battery
O-25-18S-25E
Eddy County, NM
nAPP2115333378

Sampling will begin at 10:00 a.m. on Monday, March 14, 2022 and also 10:00 a.m. on Thursday, March 17, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, March 17, 2022 8:51 AM
To: Becky Haskell; Zach Comino
Cc: Amber Griffin
Subject: FW: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, March 17, 2022 7:48 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Amber Griffin <Amber_Griffin@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: RE: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

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Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, March 16, 2022 5:06 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Amber Griffin <Amber_Griffin@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>
Subject: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Gerard AW Battery
nAPP2115333378

Sampling will begin at 10:00 a.m. on Monday, March 21, 2022, and will be continuous through Thursday, March 24, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Thursday, March 24, 2022 11:17 AM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, March 24, 2022 10:14 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

FYI

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, March 24, 2022 9:18 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: RE: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, March 23, 2022 3:41 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>

Subject: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Gerard AW Battery
O-25-18S-25E
Eddy County, NM
nAPP2115333378

Sampling will begin at 10:00 a.m. on Monday, March 28, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Thursday, April 14, 2022 3:46 PM
To: Becky Haskell; Chase Settle; Zach Comino
Subject: Fwd: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

Sent from my iPhone

Begin forwarded message:

From: Tina Huerta <Tina_Huerta@eogresources.com>
Date: April 14, 2022 at 2:44:17 PM MDT
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>, Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

fyi

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, April 14, 2022 2:40 PM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: RE: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, April 13, 2022 3:41 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Gerard AW Battery
nAPP2115333378

Sampling will begin at 10:00 a.m. on Monday, April 18, 2022, and be continuous through Wednesday, April 20, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Thursday, May 5, 2022 9:22 AM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: Gerard AW Battery (nAPP2115333378) Sampling Notification

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, May 5, 2022 8:21 AM
To: Robert.Hamlet@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Gerard AW Battery (nAPP2115333378) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Gerard AW Battery
O-25-18S-25E; Eddy County, NM
nAPP2115333378

Sampling will begin at 10:00 a.m. on Tuesday, May 10, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Wednesday, May 11, 2022 5:00 PM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: Gerard AW Battery (nAPP2115333378) Sampling Notification

Thank you,
Amber Griffin

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Wednesday, May 11, 2022 3:51 PM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Subject: Gerard AW Battery (nAPP2115333378) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Gerard AW Battery
O-25-18S-25E; Eddy County, NM
nAPP2115333378

Sampling will begin at 11:00 a.m. on Monday, May 16, 2022.

Thank you,

Miriam Morales

Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Wednesday, May 18, 2022 10:01 AM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, May 18, 2022 8:51 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

FYI

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Wednesday, May 18, 2022 8:27 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: RE: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, May 18, 2022 8:18 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: [EXTERNAL] Gerard AW Battery (nAPP2115333378) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Gerard AW Battery

O-25-18S-25E
Eddy County, NM
nAPP2115333378

Sampling will begin at 8:00 a.m. on Friday, May 20, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Appendix D 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 30, 2021

Becky Haskell

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Gerard AW Battery

OrderNo.: 2106A61

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/19/2021 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: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Gerard AW Battery

Lab Order: 2106A61

Lab ID: 2106A61-001

Collection Date: 6/17/2021 10:00:00 AM

Client Sample ID: TP1-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	2100	60		mg/Kg	20	6/24/2021 10:46:38 PM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/26/2021 8:24:39 AM	60871
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 8:24:39 AM	60871
Surr: DNOP	81.4	70-130		%Rec	1	6/26/2021 8:24:39 AM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Surr: BFB	106	70-130		%Rec	1	6/27/2021 12:51:52 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Toluene	ND	0.048		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Xylenes, Total	ND	0.096		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	6/27/2021 12:51:52 AM	60834

Lab ID: 2106A61-002

Collection Date: 6/17/2021 10:30:00 AM

Client Sample ID: TP1-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8400	300		mg/Kg	100	6/27/2021 12:01:37 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/26/2021 8:48:50 AM	60871
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 8:48:50 AM	60871
Surr: DNOP	76.6	70-130		%Rec	1	6/26/2021 8:48:50 AM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Surr: BFB	105	70-130		%Rec	1	6/27/2021 1:15:29 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Toluene	ND	0.049		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Xylenes, Total	ND	0.098		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/27/2021 1:15:29 AM	60834

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Gerard AW Battery

Lab Order: 2106A61**Lab ID:** 2106A61-003**Collection Date:** 6/17/2021 10:40:00 AM**Client Sample ID:** TP1-14**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8800	300		mg/Kg	100	6/27/2021 12:14:02 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/26/2021 9:13:14 AM	60871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 9:13:14 AM	60871
Surr: DNOP	73.4	70-130		%Rec	1	6/26/2021 9:13:14 AM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Surr: BFB	105	70-130		%Rec	1	6/27/2021 1:39:09 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Toluene	ND	0.047		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Xylenes, Total	ND	0.094		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/27/2021 1:39:09 AM	60834

Refer to the QC Summary report and sample login checklist for flagged QC data 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 2 of 16

Analytical Report

Lab Order: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Gerard AW Battery

Lab Order: 2106A61

Lab ID: 2106A61-004

Collection Date: 6/17/2021 1:00:00 PM

Client Sample ID: TP1-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9000	300		mg/Kg	100	6/27/2021 12:26:27 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 9:37:28 AM	60871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 9:37:28 AM	60871
Surr: DNOP	75.7	70-130		%Rec	1	6/26/2021 9:37:28 AM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Surr: BFB	106	70-130		%Rec	1	6/27/2021 2:02:48 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Toluene	ND	0.047		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	6/27/2021 2:02:48 AM	60834

Lab ID: 2106A61-005

Collection Date: 6/17/2021 1:25:00 PM

Client Sample ID: TP2-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	6/25/2021 12:01:06 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/26/2021 10:01:52 AM	60871
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/26/2021 10:01:52 AM	60871
Surr: DNOP	72.7	70-130		%Rec	1	6/26/2021 10:01:52 AM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Surr: BFB	220	70-130	S	%Rec	1	6/27/2021 2:26:20 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Toluene	ND	0.048		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Xylenes, Total	ND	0.096		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Surr: 4-Bromofluorobenzene	229	70-130	S	%Rec	1	6/27/2021 2:26:20 AM	60834

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106A61

Project: Gerard AW Battery

Lab ID: 2106A61-006

Collection Date: 6/17/2021 1:30:00 PM

Client Sample ID: TP2-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	63	60		mg/Kg	20	6/25/2021 12:13:30 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/26/2021 10:26:07 AM	60871
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 10:26:07 AM	60871
Surr: DNOP	73.0	70-130		%Rec	1	6/26/2021 10:26:07 AM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Surr: BFB	101	70-130		%Rec	1	6/27/2021 2:49:58 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Toluene	ND	0.049		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Xylenes, Total	ND	0.097		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/27/2021 2:49:58 AM	60834

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106A61

Project: Gerard AW Battery

Lab ID: 2106A61-007

Collection Date: 6/17/2021 1:40:00 PM

Client Sample ID: TP3-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	6/25/2021 12:25:54 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	6/26/2021 11:30:56 PM	60871
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	6/26/2021 11:30:56 PM	60871
Surr: DNOP	125	70-130		%Rec	1	6/26/2021 11:30:56 PM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Surr: BFB	105	70-130		%Rec	1	6/27/2021 3:13:35 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Toluene	ND	0.047		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/27/2021 3:13:35 AM	60834

Lab ID: 2106A61-008

Collection Date: 6/17/2021 1:45:00 PM

Client Sample ID: TP3-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	150	60		mg/Kg	20	6/26/2021 12:14:06 PM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/26/2021 11:14:31 AM	60871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 11:14:31 AM	60871
Surr: DNOP	91.0	70-130		%Rec	1	6/26/2021 11:14:31 AM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Surr: BFB	105	70-130		%Rec	1	6/27/2021 5:35:14 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Toluene	ND	0.047		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Xylenes, Total	ND	0.094		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/27/2021 5:35:14 AM	60834

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Gerard AW Battery

Lab Order: 2106A61**Lab ID:** 2106A61-009**Collection Date:** 6/17/2021 2:05:00 PM**Client Sample ID:** TP4-S**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/26/2021 12:51:19 PM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/26/2021 11:38:48 AM	60871
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 11:38:48 AM	60871
Surr: DNOP	55.6	70-130	S	%Rec	1	6/26/2021 11:38:48 AM	60871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Surr: BFB	102	70-130		%Rec	1	6/27/2021 5:58:46 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Toluene	ND	0.048		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Xylenes, Total	ND	0.096		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/27/2021 5:58:46 AM	60834

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106A61

Project: Gerard AW Battery

Lab ID: 2106A61-010

Collection Date: 6/17/2021 2:10:00 PM

Client Sample ID: TP4-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	66	60		mg/Kg	20	6/26/2021 1:03:44 PM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/25/2021 12:36:45 AM	60872
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/25/2021 12:36:45 AM	60872
Surr: DNOP	53.5	70-130	S	%Rec	1	6/25/2021 12:36:45 AM	60872
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Surr: BFB	103	70-130		%Rec	1	6/27/2021 6:22:20 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Toluene	ND	0.046		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/27/2021 6:22:20 AM	60834

Lab ID: 2106A61-011

Collection Date: 6/17/2021 2:20:00 PM

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	5200	150		mg/Kg	50	6/28/2021 9:59:48 AM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	14	9.6		mg/Kg	1	6/25/2021 1:50:01 AM	60872
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 1:50:01 AM	60872
Surr: DNOP	88.3	70-130		%Rec	1	6/25/2021 1:50:01 AM	60872
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Surr: BFB	102	70-130		%Rec	1	6/27/2021 6:45:53 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Toluene	ND	0.050		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Xylenes, Total	ND	0.10		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/27/2021 6:45:53 AM	60834

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106A61

Project: Gerard AW Battery

Lab ID: 2106A61-012

Collection Date: 6/17/2021 2:40:00 PM

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	3400	150		mg/Kg	50	6/28/2021 10:12:13 AM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/25/2021 2:14:27 AM	60872
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/25/2021 2:14:27 AM	60872
Surr: DNOP	73.6	70-130		%Rec	1	6/25/2021 2:14:27 AM	60872
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Surr: BFB	101	70-130		%Rec	1	6/27/2021 7:09:28 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Toluene	ND	0.046		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/27/2021 7:09:28 AM	60834

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106A61

Date Reported: 6/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106A61

Project: Gerard AW Battery

Lab ID: 2106A61-013

Collection Date: 6/17/2021 3:00:00 PM

Client Sample ID: TP5-14

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2100	60		mg/Kg	20	6/26/2021 2:05:48 PM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/25/2021 3:03:27 AM	60872
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 3:03:27 AM	60872
Surr: DNOP	72.7	70-130		%Rec	1	6/25/2021 3:03:27 AM	60872
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Surr: BFB	102	70-130		%Rec	1	6/27/2021 7:33:04 AM	60834
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Toluene	ND	0.050		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Xylenes, Total	ND	0.099		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/27/2021 7:33:04 AM	60834

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2106A61

30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: MB-60891	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60891	RunNo: 79336								
Prep Date: 6/24/2021	Analysis Date: 6/24/2021	SeqNo: 2788070 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60891	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60891	RunNo: 79336								
Prep Date: 6/24/2021	Analysis Date: 6/24/2021	SeqNo: 2788071 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			

Sample ID: MB-60940	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60940	RunNo: 79397								
Prep Date: 6/25/2021	Analysis Date: 6/26/2021	SeqNo: 2790645 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60940	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60940	RunNo: 79397								
Prep Date: 6/25/2021	Analysis Date: 6/26/2021	SeqNo: 2790647 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	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#: 2106A61

30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: LCS-60867	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60867			RunNo: 79325						
Prep Date: 6/23/2021	Analysis Date: 6/24/2021			SeqNo: 2787407		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.6	70	130			

Sample ID: LCS-60872	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60872			RunNo: 79325						
Prep Date: 6/23/2021	Analysis Date: 6/25/2021			SeqNo: 2787408		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	91.3	68.9	141			
Surr: DNOP	4.0		5.000		79.7	70	130			

Sample ID: MB-60867	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60867			RunNo: 79325						
Prep Date: 6/23/2021	Analysis Date: 6/24/2021			SeqNo: 2787409		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		86.7	70	130			

Sample ID: MB-60872	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60872			RunNo: 79325						
Prep Date: 6/23/2021	Analysis Date: 6/24/2021			SeqNo: 2787410		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.6	70	130			

Sample ID: 2106A61-010AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: TP4-2	Batch ID: 60872			RunNo: 79325						
Prep Date: 6/23/2021	Analysis Date: 6/25/2021			SeqNo: 2787418		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.35	0	71.9	15	184			
Surr: DNOP	2.3		5.035		45.9	70	130			S

Sample ID: 2106A61-010AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: TP4-2	Batch ID: 60872			RunNo: 79325						
Prep Date: 6/23/2021	Analysis Date: 6/25/2021			SeqNo: 2787419		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	9.8	48.97	0	67.2	15	184	9.48	23.9	

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#: 2106A61

30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: 2106A61-010AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP4-2	Batch ID: 60872	RunNo: 79325								
Prep Date: 6/23/2021	Analysis Date: 6/25/2021	SeqNo: 2787419 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1.9		4.897		38.5	70	130	0	0	S

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: LCS-60871	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60871	RunNo: 79325								
Prep Date: 6/23/2021	Analysis Date: 6/26/2021	SeqNo: 2789215 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	68.9	141			
Surr: DNOP	3.7		5.000		73.3	70	130			

Sample ID: LCS-60876	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60876	RunNo: 79325								
Prep Date: 6/23/2021	Analysis Date: 6/25/2021	SeqNo: 2789216 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.2	70	130			

Sample ID: MB-60871	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60871	RunNo: 79325								
Prep Date: 6/23/2021	Analysis Date: 6/26/2021	SeqNo: 2789217 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		79.6	70	130			

Qualifiers:

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

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#: 2106A61

30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: MB-60876	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60876			RunNo: 79325						
Prep Date: 6/23/2021	Analysis Date: 6/25/2021			SeqNo: 2789218	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		92.6	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			

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			

Sample ID: MB-60915	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60915			RunNo: 79325						
Prep Date: 6/24/2021	Analysis Date: 6/26/2021			SeqNo: 2789501	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.4	70	130			

Sample ID: MB-60900	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60900			RunNo: 79325						
Prep Date: 6/24/2021	Analysis Date: 6/26/2021			SeqNo: 2789502	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.6	70	130			

Sample ID: LCS-60915	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60915			RunNo: 79325						
Prep Date: 6/24/2021	Analysis Date: 6/26/2021			SeqNo: 2789503	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.7	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#: 2106A61

30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: LCS-60900	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60900	RunNo: 79325								
Prep Date: 6/24/2021	Analysis Date: 6/26/2021	SeqNo: 2789504		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.2	70	130			

Qualifiers:

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

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 14 of 16

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

WO#: 2106A61

30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: mb-60834	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 60834	RunNo: 79388								
Prep Date: 6/22/2021	Analysis Date: 6/26/2021	SeqNo: 2790058 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	70	130			

Sample ID: lcs-60834	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 60834	RunNo: 79388								
Prep Date: 6/22/2021	Analysis Date: 6/26/2021	SeqNo: 2790059 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1100		1000		115	70	130			

Sample ID: mb-60841	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 60841	RunNo: 79388								
Prep Date: 6/22/2021	Analysis Date: 6/27/2021	SeqNo: 2790082 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	70	130			

Sample ID: lcs-60841	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 60841	RunNo: 79388								
Prep Date: 6/22/2021	Analysis Date: 6/27/2021	SeqNo: 2790083 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		113	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#: 2106A61

30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: mb-60834	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 60834		RunNo: 79388							
Prep Date: 6/22/2021	Analysis Date: 6/26/2021		SeqNo: 2790116		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		109	70	130			

Sample ID: LCS-60834	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 60834		RunNo: 79388							
Prep Date: 6/22/2021	Analysis Date: 6/26/2021		SeqNo: 2790117		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

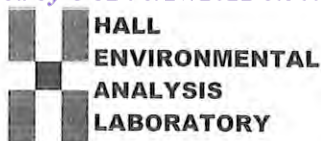
Sample ID: mb-60841	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 60841		RunNo: 79388							
Prep Date: 6/22/2021	Analysis Date: 6/27/2021		SeqNo: 2790140		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: LCS-60841	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 60841		RunNo: 79388							
Prep Date: 6/22/2021	Analysis Date: 6/27/2021		SeqNo: 2790141		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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**Work Order Number: **2106A61**

RcptNo: 1

Received By: **Desiree Dominguez** 6/19/2021 8:40:00 AMCompleted By: **Desiree Dominguez** 6/19/2021 10:05:56 AMReviewed By: **JR 6/21/21**

JD
JD

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: **DAD 6.19.21**

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	2.7	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush 5-day

Project Name:

Grand Ave Battery

Project #:

1728976

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 2.4 + 0.3 = 2.7 °C

Container Type and #

Preservative Type

HEAL No.

2106A61

-001

-002

-003

-004

-005

-006

-007

-008

-009

-010

-011

-012

Received by:

Via:

Date

Time

6/18/21

8:00

8:40

8:40

Relinquished by:

Relinquished by:

Time

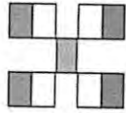
Time

0800

1900

1900

1900



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTX / MTBE / TMBs (802)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

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

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:

Project #:

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CFI): 2.4 + 0.3 = 2.7°

Container Type and #

Preservative Type

HEAL No.

2106A61

-013

Date Time Matrix Sample Name

06/21/2000 1300 S TPS-14

Date:

Time:

Relinquished by:

Via:

Date

Time

Date:

Time:

Relinquished by:

Via:

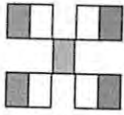
Date

Time

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

Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTX / MTBE / TMBs (8021)
TPH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
Cl, F, Br, NO₃, NO₂, PO₄, SO₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

5/18/21 16:00 300



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

July 02, 2021

Becky Haskell

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Gerard SW Battery

OrderNo.: 2106B87

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 14 sample(s) on 6/23/2021 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: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-001

Collection Date: 6/21/2021 9:50:00 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	2300	150		mg/Kg	50	7/1/2021 5:37:39 AM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/26/2021 7:05:14 PM	60915
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 7:05:14 PM	60915
Surr: DNOP	81.1	70-130		%Rec	1	6/26/2021 7:05:14 PM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Surr: BFB	102	70-130		%Rec	1	6/29/2021 7:29:09 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Toluene	ND	0.048		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Xylenes, Total	ND	0.095		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/29/2021 7:29:09 PM	60893

Lab ID: 2106B87-002

Collection Date: 6/21/2021 10:00:00 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	1100	60		mg/Kg	20	6/29/2021 4:26:31 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 7:29:37 PM	60915
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 7:29:37 PM	60915
Surr: DNOP	82.6	70-130		%Rec	1	6/26/2021 7:29:37 PM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Surr: BFB	100	70-130		%Rec	1	6/29/2021 7:52:33 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Toluene	ND	0.048		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/29/2021 7:52:33 PM	60893

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-003

Collection Date: 6/21/2021 10:30:00 AM

Client Sample ID: TP6-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	6/29/2021 4:38:55 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/28/2021 3:10:50 AM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 3:10:50 AM	60915
Surr: DNOP	47.4	70-130	S	%Rec	1	6/28/2021 3:10:50 AM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Surr: BFB	99.6	70-130		%Rec	5	6/29/2021 9:03:12 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Toluene	ND	0.24		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Xylenes, Total	ND	0.47		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	6/29/2021 9:03:12 PM	60893

Refer to the QC Summary report and sample login checklist for flagged QC data 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 2 of 16

Analytical Report

Lab Order: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-004

Collection Date: 6/21/2021 10:35:00 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	ND	60		mg/Kg	20	6/29/2021 4:51:20 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 8:18:17 PM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 8:18:17 PM	60915
Surr: DNOP	93.2	70-130		%Rec	1	6/26/2021 8:18:17 PM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Surr: BFB	99.2	70-130		%Rec	1	6/29/2021 9:26:41 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Toluene	ND	0.047		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Xylenes, Total	ND	0.094		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/29/2021 9:26:41 PM	60893

Lab ID: 2106B87-005

Collection Date: 6/21/2021 10:50:00 AM

Client Sample ID: TP7-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	6/29/2021 5:03:45 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/28/2021 6:48:54 AM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 6:48:54 AM	60915
Surr: DNOP	42.7	70-130	S	%Rec	1	6/28/2021 6:48:54 AM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Surr: BFB	98.1	70-130		%Rec	1	6/29/2021 9:50:06 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Toluene	ND	0.048		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Xylenes, Total	ND	0.096		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/29/2021 9:50:06 PM	60893

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-006

Collection Date: 6/21/2021 10:55:00 AM

Client Sample ID: TP7-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	59		mg/Kg	20	6/29/2021 4:09:23 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/26/2021 9:06:56 PM	60915
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/26/2021 9:06:56 PM	60915
Surr: DNOP	76.1	70-130		%Rec	1	6/26/2021 9:06:56 PM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Surr: BFB	101	70-130		%Rec	1	6/29/2021 10:13:33 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Toluene	ND	0.047		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Xylenes, Total	ND	0.095		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/29/2021 10:13:33 PM	60893

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-007

Collection Date: 6/21/2021 11:00:00 AM

Client Sample ID: TP8-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 4:21:47 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/28/2021 2:22:13 AM	60915
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/28/2021 2:22:13 AM	60915
Surr: DNOP	26.2	70-130	S	%Rec	1	6/28/2021 2:22:13 AM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Surr: BFB	100	70-130		%Rec	1	6/29/2021 10:37:04 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Toluene	ND	0.048		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Xylenes, Total	ND	0.096		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/29/2021 10:37:04 PM	60893

Lab ID: 2106B87-008

Collection Date: 6/21/2021 11:05:00 AM

Client Sample ID: TP8-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 4:34:12 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 9:55:30 PM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 9:55:30 PM	60915
Surr: DNOP	69.8	70-130	S	%Rec	1	6/26/2021 9:55:30 PM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Surr: BFB	100	70-130		%Rec	1	6/29/2021 11:00:28 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Toluene	ND	0.050		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/29/2021 11:00:28 PM	60893

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-009

Collection Date: 6/21/2021 11:15:00 AM

Client Sample ID: HA1-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 4:46:36 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/28/2021 1:33:41 AM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 1:33:41 AM	60915
Surr: DNOP	32.8	70-130	S	%Rec	1	6/28/2021 1:33:41 AM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Surr: BFB	98.0	70-130		%Rec	1	6/29/2021 11:23:56 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Toluene	ND	0.050		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Xylenes, Total	ND	0.10		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/29/2021 11:23:56 PM	60893

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-010

Collection Date: 6/21/2021 11:20:00 AM

Client Sample ID: HA1-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	69	60		mg/Kg	20	6/29/2021 5:23:50 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	24	9.9		mg/Kg	1	6/28/2021 12:45:07 AM	60915
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	6/28/2021 12:45:07 AM	60915
Surr: DNOP	54.9	70-130	S	%Rec	1	6/28/2021 12:45:07 AM	60915
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Surr: BFB	99.5	70-130		%Rec	5	6/29/2021 11:47:29 PM	60893
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Toluene	ND	0.25		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Ethylbenzene	ND	0.25		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Xylenes, Total	ND	0.50		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	6/29/2021 11:47:29 PM	60893

Lab ID: 2106B87-011

Collection Date: 6/21/2021 12:20:00 PM

Client Sample ID: TP9-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 5:36:15 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2000	98		mg/Kg	10	6/26/2021 3:47:39 PM	60925
Motor Oil Range Organics (MRO)	1400	490		mg/Kg	10	6/26/2021 3:47:39 PM	60925
Surr: DNOP	0	70-130	S	%Rec	10	6/26/2021 3:47:39 PM	60925
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	11	9.7		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Surr: BFB	113	70-130		%Rec	2	6/29/2021 10:34:00 PM	60919
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.049		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Toluene	ND	0.097		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Ethylbenzene	ND	0.097		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Xylenes, Total	ND	0.19		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	2	6/29/2021 10:34:00 PM	60919

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-012

Collection Date: 6/21/2021 12:30:00 PM

Client Sample ID: TP9-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	6/29/2021 5:48:39 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 4:00:19 PM	60925
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 4:00:19 PM	60925
Surr: DNOP	103	70-130		%Rec	1	6/26/2021 4:00:19 PM	60925
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Surr: BFB	115	70-130		%Rec	1	6/29/2021 11:33:00 PM	60919
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Toluene	ND	0.050		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Xylenes, Total	ND	0.10		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	6/29/2021 11:33:00 PM	60919

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B87

Date Reported: 7/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B87

Project: Gerard SW Battery

Lab ID: 2106B87-013

Collection Date: 6/21/2021 12:45:00 PM

Client Sample ID: TP9-14

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	160	61		mg/Kg	20	6/29/2021 6:01:03 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 4:12:41 PM	60925
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 4:12:41 PM	60925
Surr: DNOP	102	70-130		%Rec	1	6/26/2021 4:12:41 PM	60925
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Surr: BFB	94.0	70-130		%Rec	1	6/30/2021 12:33:00 AM	60919
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Toluene	ND	0.048		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Ethylbenzene	ND	0.048		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Xylenes, Total	ND	0.097		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	6/30/2021 12:33:00 AM	60919

Lab ID: 2106B87-014

Collection Date: 6/21/2021 1:00:00 PM

Client Sample ID: TP9-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	550	60		mg/Kg	20	6/29/2021 6:13:27 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 4:25:14 PM	60925
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 4:25:14 PM	60925
Surr: DNOP	103	70-130		%Rec	1	6/26/2021 4:25:14 PM	60925
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Surr: BFB	99.7	70-130		%Rec	1	6/30/2021 12:52:00 AM	60919
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Toluene	ND	0.048		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Ethylbenzene	ND	0.048		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Xylenes, Total	ND	0.097		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	6/30/2021 12:52:00 AM	60919

Refer to the QC Summary report and sample login checklist for flagged QC data 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 ReportLab Order: **2106B87**Date Reported: **7/2/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** GHD**Lab Order:** 2106B87**Project:** Gerard SW 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#: 2106B87

02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: MB-60993	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60993	RunNo: 79428								
Prep Date: 6/29/2021	Analysis Date: 6/29/2021	SeqNo: 2792934 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60993	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60993	RunNo: 79428								
Prep Date: 6/29/2021	Analysis Date: 6/29/2021	SeqNo: 2792935 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: MB-61012	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61012	RunNo: 79428								
Prep Date: 6/29/2021	Analysis Date: 6/30/2021	SeqNo: 2793004 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61012	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61012	RunNo: 79428								
Prep Date: 6/29/2021	Analysis Date: 6/30/2021	SeqNo: 2793005 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Sample ID: MB-61012	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61012	RunNo: 79443								
Prep Date: 6/29/2021	Analysis Date: 6/29/2021	SeqNo: 2793801 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61012	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61012	RunNo: 79443								
Prep Date: 6/29/2021	Analysis Date: 6/29/2021	SeqNo: 2793802 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

Qualifiers:

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

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

Page 11 of 16

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

WO#: 2106B87

02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: MB-60915	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60915	RunNo: 79325								
Prep Date: 6/24/2021	Analysis Date: 6/26/2021	SeqNo: 2789501 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.4	70	130			

Sample ID: LCS-60915	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60915	RunNo: 79325								
Prep Date: 6/24/2021	Analysis Date: 6/26/2021	SeqNo: 2789503 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	107	68.9	141			
Surr: DNOP	4.7		5.000		93.7	70	130			

Sample ID: MB-60925	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60925	RunNo: 79364								
Prep Date: 6/25/2021	Analysis Date: 6/26/2021	SeqNo: 2789749 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			

Sample ID: LCS-60925	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60925	RunNo: 79364								
Prep Date: 6/25/2021	Analysis Date: 6/26/2021	SeqNo: 2789750 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	98.0	68.9	141			
Surr: DNOP	5.6		5.000		112	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#: 2106B87

02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: mb-60893	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60893			RunNo: 79456						
Prep Date: 6/24/2021	Analysis Date: 6/29/2021			SeqNo: 2792789			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-60893	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60893			RunNo: 79456						
Prep Date: 6/24/2021	Analysis Date: 6/29/2021			SeqNo: 2792790			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	106	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: mb-60919	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60919			RunNo: 79458						
Prep Date: 6/24/2021	Analysis Date: 6/29/2021			SeqNo: 2793254			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.1	70	130			

Sample ID: lcs-60919	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60919			RunNo: 79458						
Prep Date: 6/24/2021	Analysis Date: 6/29/2021			SeqNo: 2793256			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	1000		1000		104	70	130			

Sample ID: 2106B87-011ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP9-2	Batch ID: 60919			RunNo: 79458						
Prep Date: 6/24/2021	Analysis Date: 6/29/2021			SeqNo: 2793258			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	9.7	24.18	10.77	83.1	61.3	114			
Surr: BFB	2300		1934		117	70	130			

Sample ID: 2106B87-011amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP9-2	Batch ID: 60919			RunNo: 79458						
Prep Date: 6/24/2021	Analysis Date: 6/29/2021			SeqNo: 2793260			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#: 2106B87

02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: 2106B87-011amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP9-2		Batch ID: 60919		RunNo: 79458						
Prep Date: 6/24/2021		Analysis Date: 6/29/2021		SeqNo: 2793260		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	9.4	23.61	10.77	79.0	61.3	114	4.74	20	
Surr: BFB	2300		1889		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

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

WO#: 2106B87

02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: mb-60893	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60893	RunNo: 79456								
Prep Date: 6/24/2021	Analysis Date: 6/29/2021	SeqNo: 2792832 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-60893	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60893	RunNo: 79456								
Prep Date: 6/24/2021	Analysis Date: 6/29/2021	SeqNo: 2792833 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.1	80	120			
Toluene	0.92	0.050	1.000	0	91.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: mb-60919	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60919	RunNo: 79458								
Prep Date: 6/24/2021	Analysis Date: 6/29/2021	SeqNo: 2793306 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	70	130			

Sample ID: lcs-60919	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60919	RunNo: 79458								
Prep Date: 6/24/2021	Analysis Date: 6/29/2021	SeqNo: 2793308 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	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Qualifiers:

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

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#: 2106B87

02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: 2106B87-012ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP9-8	Batch ID: 60919	RunNo: 79458								
Prep Date: 6/24/2021	Analysis Date: 6/29/2021	SeqNo: 2793310	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9911	0	96.8	80	120			
Toluene	0.98	0.050	0.9911	0	98.4	80	120			
Ethylbenzene	1.0	0.050	0.9911	0	101	80	120			
Xylenes, Total	3.0	0.099	2.973	0.03500	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		0.9911		95.3	70	130			

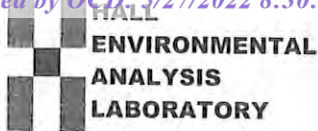
Sample ID: 2106B87-012amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP9-8	Batch ID: 60919	RunNo: 79458								
Prep Date: 6/24/2021	Analysis Date: 6/30/2021	SeqNo: 2793318	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9766	0	89.0	80	120	9.92	20	
Toluene	0.89	0.049	0.9766	0	90.7	80	120	9.57	20	
Ethylbenzene	0.91	0.049	0.9766	0	92.7	80	120	9.93	20	
Xylenes, Total	2.7	0.098	2.930	0.03500	91.3	80	120	10.2	20	
Surr: 4-Bromofluorobenzene	0.89		0.9766		90.9	70	130	0	0	

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2106B87

RcptNo: 1

Received By: Juan Rojas

6/23/2021 7:30:00 AM

Juan Rojas

Completed By: Cheyenne Cason

6/23/2021 8:14:02 AM

Cason

Reviewed By:

*JO**6.23.21*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: *RLC*

6/23/21

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	5.3	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:

Project #:

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice:

☒ Yes☐ No

of Coolers:

Cooler Temp (including CF):

5:4-0.1-53

Container Type and #

Preservative Type

HEAL No.

21061387

Date Time Matrix Sample Name

06/22/2012 12:45 S TP9-14

06/22/2012 13:00 S TP9-20

Date:

Time:

Relinquished by:

Zach Comino

Received by:

Via:

Date

Time

Date:

Time:

Relinquished by:

Zach Comino

Received by:

Via:

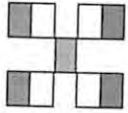
Date

Time

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

Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMBs (8021)

FPH: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)

Client: M.L. 300

2

2



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

July 20, 2021

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

RE: Gerard AW Battery

OrderNo.: 2107473

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 7/10/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 2107473

Date Reported: 7/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Gerard AW Battery

Lab Order: 2107473

Lab ID: 2107473-001

Collection Date: 7/8/2021 8:15:00 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	5800	300		mg/Kg	100	7/15/2021 7:26:53 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2021 5:34:02 PM	61259
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2021 5:34:02 PM	61259
Surr: DNOP	88.2	70-130		%Rec	1	7/14/2021 5:34:02 PM	61259
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Surr: BFB	101	70-130		%Rec	1	7/13/2021 5:48:30 PM	61241
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Toluene	ND	0.047		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Ethylbenzene	ND	0.047		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Xylenes, Total	ND	0.093		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/13/2021 5:48:30 PM	61241

Lab ID: 2107473-002

Collection Date: 7/8/2021 8:25:00 AM

Client Sample ID: TP10-8

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	7/15/2021 7:39:18 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/14/2021 5:58:01 PM	61259
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2021 5:58:01 PM	61259
Surr: DNOP	92.7	70-130		%Rec	1	7/14/2021 5:58:01 PM	61259
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Surr: BFB	99.4	70-130		%Rec	1	7/13/2021 6:12:22 PM	61241
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Toluene	ND	0.048		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Xylenes, Total	ND	0.097		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/13/2021 6:12:22 PM	61241

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107473

Date Reported: 7/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Gerard AW Battery

Lab Order: 2107473**Lab ID:** 2107473-003**Collection Date:** 7/8/2021 8:40:00 AM**Client Sample ID:** TP10-15**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6500	300		mg/Kg	100	7/15/2021 7:51:43 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/14/2021 6:21:58 PM	61259
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/14/2021 6:21:58 PM	61259
Surr: DNOP	94.2	70-130		%Rec	1	7/14/2021 6:21:58 PM	61259
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Surr: BFB	103	70-130		%Rec	1	7/13/2021 6:36:19 PM	61241
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Toluene	ND	0.049		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Xylenes, Total	ND	0.097		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	7/13/2021 6:36:19 PM	61241

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107473

Date Reported: 7/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Gerard AW Battery

Lab Order: 2107473**Lab ID:** 2107473-004**Collection Date:** 7/8/2021 8:50:00 AM**Client Sample ID:** TP10-20**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4400	150		mg/Kg	50	7/15/2021 8:04:08 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/14/2021 6:45:54 PM	61259
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/14/2021 6:45:54 PM	61259
Surr: DNOP	95.1	70-130		%Rec	1	7/14/2021 6:45:54 PM	61259
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Surr: BFB	98.3	70-130		%Rec	1	7/13/2021 7:00:17 PM	61241
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Toluene	ND	0.049		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/13/2021 7:00:17 PM	61241

Lab ID: 2107473-005**Collection Date:** 7/8/2021 9:00:00 AM**Client Sample ID:** TP11-2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	7000	300		mg/Kg	100	7/15/2021 8:16:32 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2021 1:06:05 PM	61260
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2021 1:06:05 PM	61260
Surr: DNOP	75.8	70-130		%Rec	1	7/14/2021 1:06:05 PM	61260
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Surr: BFB	97.2	70-130		%Rec	1	7/13/2021 9:22:36 PM	61244
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Toluene	ND	0.049		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/13/2021 9:22:36 PM	61244

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2107473

Date Reported: 7/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Gerard AW Battery

Lab Order: 2107473**Lab ID:** 2107473-006**Collection Date:** 7/8/2021 9:30:00 AM**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	4700	150		mg/Kg	50	7/15/2021 8:28:57 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/14/2021 2:19:11 PM	61260
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/14/2021 2:19:11 PM	61260
Surr: DNOP	79.9	70-130		%Rec	1	7/14/2021 2:19:11 PM	61260
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Surr: BFB	99.1	70-130		%Rec	1	7/13/2021 10:33:29 PM	61244
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Toluene	ND	0.049		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/13/2021 10:33:29 PM	61244

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107473

Date Reported: 7/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Gerard AW Battery

Lab Order: 2107473**Lab ID:** 2107473-007**Collection Date:** 7/8/2021 9:40:00 AM**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	5200	150		mg/Kg	50	7/15/2021 8:41:21 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/14/2021 2:43:24 PM	61260
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2021 2:43:24 PM	61260
Surr: DNOP	75.0	70-130		%Rec	1	7/14/2021 2:43:24 PM	61260
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Surr: BFB	97.9	70-130		%Rec	1	7/13/2021 11:44:18 PM	61244
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Toluene	ND	0.047		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Ethylbenzene	ND	0.047		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Xylenes, Total	ND	0.093		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/13/2021 11:44:18 PM	61244

Lab ID: 2107473-008**Collection Date:** 7/8/2021 9:50:00 AM**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	5200	150		mg/Kg	50	7/15/2021 8:53:46 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/14/2021 3:07:44 PM	61260
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2021 3:07:44 PM	61260
Surr: DNOP	74.9	70-130		%Rec	1	7/14/2021 3:07:44 PM	61260
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Surr: BFB	98.7	70-130		%Rec	1	7/14/2021 12:07:48 AM	61244
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Toluene	ND	0.048		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Xylenes, Total	ND	0.095		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/14/2021 12:07:48 AM	61244

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2107473

Date Reported: 7/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Gerard AW Battery

Lab Order: 2107473**Lab ID:** 2107473-009**Collection Date:** 7/8/2021 10:20:00 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	59		mg/Kg	20	7/15/2021 1:14:25 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/15/2021 12:04:44 PM	61260
Motor Oil Range Organics (MRO)	54	49		mg/Kg	1	7/15/2021 12:04:44 PM	61260
Surr: DNOP	83.8	70-130		%Rec	1	7/15/2021 12:04:44 PM	61260
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Surr: BFB	96.9	70-130		%Rec	1	7/14/2021 12:31:21 AM	61244
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Toluene	ND	0.047		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Ethylbenzene	ND	0.047		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Xylenes, Total	ND	0.094		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/14/2021 12:31:21 AM	61244

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107473

Date Reported: 7/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Gerard AW Battery

Lab Order: 2107473**Lab ID:** 2107473-010**Collection Date:** 7/8/2021 10:45:00 AM**Client Sample ID:** TP12-2**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	7/15/2021 1:26:50 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/14/2021 4:20:51 PM	61260
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2021 4:20:51 PM	61260
Surr: DNOP	79.0	70-130		%Rec	1	7/14/2021 4:20:51 PM	61260
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Surr: BFB	93.5	70-130		%Rec	1	7/14/2021 12:54:51 AM	61244
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Toluene	ND	0.048		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	7/14/2021 12:54:51 AM	61244

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2107473

20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-61289	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 61289	RunNo: 79791
Prep Date: 7/14/2021	Analysis Date: 7/15/2021	SeqNo: 2808308 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-61289	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 61289	RunNo: 79791
Prep Date: 7/14/2021	Analysis Date: 7/15/2021	SeqNo: 2808309 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.6 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.
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#: 2107473

20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-61259	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61259	RunNo: 79789								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2806762 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		91.6	70	130			

Sample ID: LCS-61259	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61259	RunNo: 79789								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2806763 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.1	68.9	141			
Surr: DNOP	4.5		5.000		90.9	70	130			

Sample ID: 2107473-005AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP11-2	Batch ID: 61260	RunNo: 79808								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2807036 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.6	48.08	0	77.0	15	184			
Surr: DNOP	2.9		4.808		59.4	70	130			S

Sample ID: 2107473-005AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP11-2	Batch ID: 61260	RunNo: 79808								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2807037 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.6	48.08	0	88.3	15	184	13.7	23.9	
Surr: DNOP	3.1		4.808		65.1	70	130	0	0	S

Sample ID: LCS-61260	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61260	RunNo: 79808								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2807054 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	68.9	141			
Surr: DNOP	4.1		5.000		81.8	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#: 2107473

20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-61260	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61260	RunNo: 79808								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2807055 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.9	70	130			

Sample ID: MB-61268	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61268	RunNo: 79790								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2807608 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.4	70	130			

Sample ID: LCS-61268	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61268	RunNo: 79790								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2807609 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.6	70	130			

Sample ID: MB-61275	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61275	RunNo: 79790								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2807632 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		88.4	70	130			

Sample ID: LCS-61275	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61275	RunNo: 79790								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2807633 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.9	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#: 2107473

20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-61241	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61241	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2805977 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.1	70	130			

Sample ID: lcs-61241	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61241	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2805978 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.0	78.6	131			
Surr: BFB	1100		1000		105	70	130			

Sample ID: mb-61244	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61244	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806001 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		97.3	70	130			

Sample ID: lcs-61244	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61244	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806002 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.7	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: 2107473-005ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP11-2	Batch ID: 61244	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806004 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.90	0	118	61.3	114			S
Surr: BFB	1100		996.0		112	70	130			

Sample ID: 2107473-005amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP11-2	Batch ID: 61244	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806005 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#: 2107473
20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2107473-005amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TP11-2		Batch ID: 61244		RunNo: 79767							
Prep Date: 7/12/2021		Analysis Date: 7/13/2021		SeqNo: 2806005		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	29	4.9	24.65	0	117	61.3	114	2.22	20	S	
Surr: BFB	1100		986.2		108	70	130	0	0		

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical 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#: 2107473

20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-61241	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61241	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806025 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-61241	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61241	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806026 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-61244	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61244	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806049 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-61244	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61244	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806050 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	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		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#: 2107473

20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2107473-006ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP11-8	Batch ID: 61244	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806053	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9588	0	109	80	120			
Toluene	1.1	0.048	0.9588	0	112	80	120			
Ethylbenzene	1.1	0.048	0.9588	0	113	80	120			
Xylenes, Total	3.3	0.096	2.876	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9588		105	70	130			

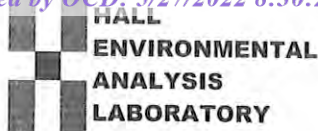
Sample ID: 2107473-006amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP11-8	Batch ID: 61244	RunNo: 79767								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806054	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9823	0	109	80	120	2.54	20	
Toluene	1.1	0.049	0.9823	0	112	80	120	2.26	20	
Ethylbenzene	1.1	0.049	0.9823	0	113	80	120	2.38	20	
Xylenes, Total	3.3	0.098	2.947	0	113	80	120	1.93	20	
Surr: 4-Bromofluorobenzene	1.0		0.9823		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

Page 14 of 14



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: 2107473

RcptNo: 1

Received By: Cheyenne Cason 7/10/2021 8:00:00 AM

Completed By: Cheyenne Cason 7/10/2021 9:46:27 AM

Reviewed By: DAD 7/12/21

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: CC 7/10/21Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				

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:

General ALJ Battery

Project #:

11228976

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Zach Comino

On Ice:

☒ Yes☐ No

of Coolers:

Cooler Temp (including OF): 0.5 - 0.5

Container Type and #

Preservative Type

HEAL No.

2107473

Date Time Matrix Sample Name

0825 0815 S TP10-2

0825 0825 S TP10-8

0840 0840 S TP10-15

0850 0850 S TP10-20

0900 0900 S TP11-2

0930 0930 S TP11-8

0940 0940 S TP11-15

0950 0950 S TP11-20

1020 1020 S TP12-S

1045 1045 S TP12-2

Date:

Time:

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Relinquished by:

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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

March 14, 2022

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

RE: Gerald AW Battery

OrderNo.: 2203300

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/4/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203300

Date Reported: 3/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-1

Project: Gerald AW Battery

Collection Date: 3/2/2022 11:50:00 AM

Lab ID: 2203300-001

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	260	60		mg/Kg	20	3/10/2022 7:21:36 PM	66099
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	170	9.4		mg/Kg	1	3/9/2022 6:22:41 PM	66000
Motor Oil Range Organics (MRO)	300	47		mg/Kg	1	3/9/2022 6:22:41 PM	66000
Surr: DNOP	107	51.1-141		%Rec	1	3/9/2022 6:22:41 PM	66000
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/10/2022 3:37:52 AM	65984
Surr: BFB	107	70-130		%Rec	1	3/10/2022 3:37:52 AM	65984
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/10/2022 3:37:52 AM	65984
Toluene	ND	0.048		mg/Kg	1	3/10/2022 3:37:52 AM	65984
Ethylbenzene	ND	0.048		mg/Kg	1	3/10/2022 3:37:52 AM	65984
Xylenes, Total	ND	0.097		mg/Kg	1	3/10/2022 3:37:52 AM	65984
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/10/2022 3:37:52 AM	65984

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

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

Page 1 of 9

Analytical Report

Lab Order 2203300

Date Reported: 3/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-2

Project: Gerald AW Battery

Collection Date: 3/2/2022 11:55:00 AM

Lab ID: 2203300-002

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	110	60		mg/Kg	20	3/10/2022 7:58:50 PM	66099
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	120	9.5		mg/Kg	1	3/9/2022 6:46:53 PM	66000
Motor Oil Range Organics (MRO)	230	47		mg/Kg	1	3/9/2022 6:46:53 PM	66000
Surr: DNOP	107	51.1-141		%Rec	1	3/9/2022 6:46:53 PM	66000
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/10/2022 4:01:24 AM	65984
Surr: BFB	106	70-130		%Rec	1	3/10/2022 4:01:24 AM	65984
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/10/2022 4:01:24 AM	65984
Toluene	ND	0.050		mg/Kg	1	3/10/2022 4:01:24 AM	65984
Ethylbenzene	ND	0.050		mg/Kg	1	3/10/2022 4:01:24 AM	65984
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2022 4:01:24 AM	65984
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	3/10/2022 4:01:24 AM	65984

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

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

Page 2 of 9

Analytical Report

Lab Order 2203300

Date Reported: 3/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-3

Project: Gerald AW Battery

Collection Date: 3/2/2022 12:00:00 PM

Lab ID: 2203300-003

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	370	60		mg/Kg	20	3/10/2022 8:36:03 PM	66099
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	13	9.5		mg/Kg	1	3/10/2022 1:59:45 AM	65995
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/10/2022 1:59:45 AM	65995
Surr: DNOP	89.0	51.1-141		%Rec	1	3/10/2022 1:59:45 AM	65995
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/9/2022 10:33:00 AM	65989
Surr: BFB	102	70-130		%Rec	1	3/9/2022 10:33:00 AM	65989
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/9/2022 10:33:00 AM	65989
Toluene	ND	0.049		mg/Kg	1	3/9/2022 10:33:00 AM	65989
Ethylbenzene	ND	0.049		mg/Kg	1	3/9/2022 10:33:00 AM	65989
Xylenes, Total	ND	0.098		mg/Kg	1	3/9/2022 10:33:00 AM	65989
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	3/9/2022 10:33:00 AM	65989

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203300

14-Mar-22

Client: GHD Midland
Project: Gerald AW Battery

Sample ID: MB-66099	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66099	RunNo: 86410								
Prep Date: 3/10/2022	Analysis Date: 3/10/2022	SeqNo: 3048309	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66099	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66099	RunNo: 86410								
Prep Date: 3/10/2022	Analysis Date: 3/10/2022	SeqNo: 3048310	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

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

WO#: 2203300

14-Mar-22

Client: GHD Midland
Project: Gerald AW Battery

Sample ID: 2203300-003AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-3	Batch ID: 65995	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/9/2022	SeqNo: 3045163 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.9	49.46	12.81	66.6	36.1	154			
Surr: DNOP	3.1		4.946		63.1	51.1	141			

Sample ID: 2203300-003AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-3	Batch ID: 65995	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/9/2022	SeqNo: 3045164 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	49.95	12.81	63.3	36.1	154	2.96	33.9	
Surr: DNOP	1.7		4.995		33.2	51.1	141	0	0	S

Sample ID: LCS-65995	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65995	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045214 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.9	68.9	135			
Surr: DNOP	5.1		5.000		103	51.1	141			

Sample ID: LCS-66000	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66000	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045217 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	95.3	68.9	135			
Surr: DNOP	4.9		5.000		98.7	51.1	141			

Sample ID: MB-65995	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65995	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045220 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		102	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203300

14-Mar-22

Client: GHD Midland
Project: Gerald AW Battery

Sample ID: MB-66000	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66000	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045224	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		105	51.1	141			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2203300

14-Mar-22

Client: GHD Midland
Project: Gerald AW Battery

Sample ID: mb-65984	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 65984		RunNo: 86367							
Prep Date: 3/7/2022	Analysis Date: 3/9/2022		SeqNo: 3046055		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		110	70	130			

Sample ID: lcs-65984	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 65984		RunNo: 86367							
Prep Date: 3/7/2022	Analysis Date: 3/9/2022		SeqNo: 3046056		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1200		1000		124	70	130			

Sample ID: lcs-65989	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 65989		RunNo: 86374							
Prep Date: 3/7/2022	Analysis Date: 3/9/2022		SeqNo: 3046245		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Surr: BFB	1200		1000		116	70	130			

Sample ID: mb-65989	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 65989		RunNo: 86374							
Prep Date: 3/7/2022	Analysis Date: 3/9/2022		SeqNo: 3046246		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: 2203300-003ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SW-3	Batch ID: 65989		RunNo: 86374							
Prep Date: 3/7/2022	Analysis Date: 3/9/2022		SeqNo: 3046248		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.41	0	105	70	130			
Surr: BFB	1200		976.6		125	70	130			

Sample ID: 2203300-003amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SW-3	Batch ID: 65989		RunNo: 86374							
Prep Date: 3/7/2022	Analysis Date: 3/9/2022		SeqNo: 3046249		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203300
14-Mar-22

Client: GHD Midland
Project: Gerald AW Battery

Sample ID: 2203300-003amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-3		Batch ID: 65989		RunNo: 86374						
Prep Date: 3/7/2022		Analysis Date: 3/9/2022		SeqNo: 3046249		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.88	0	102	70	130	0.827	20	
Surr: BFB	1200		995.0		125	70	130	0	0	

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2203300

14-Mar-22

Client: GHD Midland
Project: Gerald AW Battery

Sample ID: mb-65984	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 65984	RunNo: 86367								
Prep Date: 3/7/2022	Analysis Date: 3/9/2022	SeqNo: 3046101 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-65984	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 65984	RunNo: 86367								
Prep Date: 3/7/2022	Analysis Date: 3/9/2022	SeqNo: 3046102 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.6	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: lcs-65989	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 65989	RunNo: 86374								
Prep Date: 3/7/2022	Analysis Date: 3/9/2022	SeqNo: 3046298 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	70	130			

Sample ID: mb-65989	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 65989	RunNo: 86374								
Prep Date: 3/7/2022	Analysis Date: 3/9/2022	SeqNo: 3046299 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203300

RcptNo: 1

Received By: Cheyenne Cason

3/4/2022 8:00:00 AM

CC

Completed By: Sean Livingston

3/4/2022 9:25:04 AM

*SL*Reviewed By: *JR 3/4/22*Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? ☐

Checked by: *KPG 3/4/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good				
2	1.1	Good				



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

March 09, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203349

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/5/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203349

Date Reported: 3/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-13'

Project: Gerard AW Battery

Collection Date: 3/3/2022 2:30:00 PM

Lab ID: 2203349-001

Matrix: MEOH (SOIL)

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	310	59		mg/Kg	20	3/7/2022 10:25:21 AM	65979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	29	9.6		mg/Kg	1	3/7/2022 11:47:04 AM	65977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/7/2022 11:47:04 AM	65977
Surr: DNOP	94.6	51.1-141		%Rec	1	3/7/2022 11:47:04 AM	65977
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	3/7/2022 2:57:15 PM	A86283
Surr: BFB	119	70-130		%Rec	5	3/7/2022 2:57:15 PM	A86283
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.087		mg/Kg	5	3/7/2022 2:57:15 PM	C86283
Toluene	ND	0.17		mg/Kg	5	3/7/2022 2:57:15 PM	C86283
Ethylbenzene	ND	0.17		mg/Kg	5	3/7/2022 2:57:15 PM	C86283
Xylenes, Total	ND	0.35		mg/Kg	5	3/7/2022 2:57:15 PM	C86283
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	3/7/2022 2:57:15 PM	C86283

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

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

Page 1 of 6

Analytical Report

Lab Order 2203349

Date Reported: 3/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-14'

Project: Gerard AW Battery

Collection Date: 3/3/2022 2:35:00 PM

Lab ID: 2203349-002

Matrix: MEOH (SOIL)

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	3/7/2022 10:37:43 AM	65979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2022 11:57:43 AM	65977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/7/2022 11:57:43 AM	65977
Surr: DNOP	89.1	51.1-141		%Rec	1	3/7/2022 11:57:43 AM	65977
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	3/7/2022 3:20:51 PM	A86283
Surr: BFB	112	70-130		%Rec	1	3/7/2022 3:20:51 PM	A86283
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.014		mg/Kg	1	3/7/2022 3:20:51 PM	C86283
Toluene	ND	0.029		mg/Kg	1	3/7/2022 3:20:51 PM	C86283
Ethylbenzene	ND	0.029		mg/Kg	1	3/7/2022 3:20:51 PM	C86283
Xylenes, Total	ND	0.057		mg/Kg	1	3/7/2022 3:20:51 PM	C86283
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	3/7/2022 3:20:51 PM	C86283

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

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

Page 2 of 6

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

WO#: 2203349

09-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-65979		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 65979		RunNo: 86285						
Prep Date: 3/7/2022		Analysis Date: 3/7/2022		SeqNo: 3043080		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-65979		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 65979		RunNo: 86285						
Prep Date: 3/7/2022		Analysis Date: 3/7/2022		SeqNo: 3043081		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

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

Page 3 of 6

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

WO#: 2203349

09-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-65977	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 65977			RunNo: 86279						
Prep Date: 3/7/2022	Analysis Date: 3/7/2022			SeqNo: 3042148		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	135			
Surr: DNOP	4.2		5.000		83.7	51.1	141			

Sample ID: MB-65977	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 65977			RunNo: 86279						
Prep Date: 3/7/2022	Analysis Date: 3/7/2022			SeqNo: 3042150		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.1	51.1	141			

Qualifiers:

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

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

WO#: 2203349

09-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: A86283		RunNo: 86283							
Prep Date:	Analysis Date: 3/7/2022		SeqNo: 3042374		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		110	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: A86283		RunNo: 86283							
Prep Date:	Analysis Date: 3/7/2022		SeqNo: 3042375		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.8	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Qualifiers:

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

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

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

WO#: 2203349

09-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: C86283	RunNo: 86283								
Prep Date:	Analysis Date: 3/7/2022	SeqNo: 3042416	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: C86283	RunNo: 86283								
Prep Date:	Analysis Date: 3/7/2022	SeqNo: 3042417	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Qualifiers:

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


**ENVIRONMENTAL
ANALYSIS
LABORATORY**

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203349

RcptNo: 1

Received By: Cheyenne Cason 3/5/2022 8:55:00 AM

Completed By: Cheyenne Cason 3/5/2022 9:14:39 AM

Reviewed By: *Cuc* 3/5/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *KPA 3/5/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Not Present			
2	0.7	Good	Not Present			
3	4.0	Good	Not Present			



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

March 21, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203511

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/9/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203511

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-1

Project: Gerard AW Battery

Collection Date: 3/7/2022 2:10:00 PM

Lab ID: 2203511-001

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/15/2022 10:31:55 PM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/11/2022 6:38:37 PM	66080
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 6:38:37 PM	66080
Surr: DNOP	81.1	51.1-141		%Rec	1	3/11/2022 6:38:37 PM	66080
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2022 6:10:00 PM	66069
Surr: BFB	107	70-130		%Rec	1	3/11/2022 6:10:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/11/2022 6:10:00 PM	66069
Toluene	ND	0.047		mg/Kg	1	3/11/2022 6:10:00 PM	66069
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2022 6:10:00 PM	66069
Xylenes, Total	ND	0.095		mg/Kg	1	3/11/2022 6:10:00 PM	66069
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	3/11/2022 6:10:00 PM	66069

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

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

Page 1 of 8

Analytical Report

Lab Order 2203511

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-2

Project: Gerard AW Battery

Collection Date: 3/7/2022 2:15:00 PM

Lab ID: 2203511-002

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2400	150		mg/Kg	50	3/16/2022 4:33:02 PM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	29	9.5		mg/Kg	1	3/11/2022 6:49:04 PM	66080
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 6:49:04 PM	66080
Surr: DNOP	92.4	51.1-141		%Rec	1	3/11/2022 6:49:04 PM	66080
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/11/2022 6:29:00 PM	66069
Surr: BFB	107	70-130		%Rec	1	3/11/2022 6:29:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/11/2022 6:29:00 PM	66069
Toluene	ND	0.048		mg/Kg	1	3/11/2022 6:29:00 PM	66069
Ethylbenzene	ND	0.048		mg/Kg	1	3/11/2022 6:29:00 PM	66069
Xylenes, Total	ND	0.096		mg/Kg	1	3/11/2022 6:29:00 PM	66069
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	3/11/2022 6:29:00 PM	66069

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

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

Analytical Report

Lab Order 2203511

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-3

Project: Gerard AW Battery

Collection Date: 3/7/2022 2:20:00 PM

Lab ID: 2203511-003

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	3/15/2022 11:21:34 PM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	25	9.8		mg/Kg	1	3/11/2022 7:10:02 PM	66080
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 7:10:02 PM	66080
Surr: DNOP	91.7	51.1-141		%Rec	1	3/11/2022 7:10:02 PM	66080
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2022 6:49:00 PM	66069
Surr: BFB	101	70-130		%Rec	1	3/11/2022 6:49:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/11/2022 6:49:00 PM	66069
Toluene	ND	0.047		mg/Kg	1	3/11/2022 6:49:00 PM	66069
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2022 6:49:00 PM	66069
Xylenes, Total	ND	0.095		mg/Kg	1	3/11/2022 6:49:00 PM	66069
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	3/11/2022 6:49:00 PM	66069

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

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

Analytical Report

Lab Order 2203511

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-4

Project: Gerard AW Battery

Collection Date: 3/7/2022 2:25:00 PM

Lab ID: 2203511-004

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	930	60		mg/Kg	20	3/15/2022 11:33:58 PM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/11/2022 7:20:32 PM	66080
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/11/2022 7:20:32 PM	66080
Surr: DNOP	86.2	51.1-141		%Rec	1	3/11/2022 7:20:32 PM	66080
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/11/2022 7:09:00 PM	66069
Surr: BFB	105	70-130		%Rec	1	3/11/2022 7:09:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/11/2022 7:09:00 PM	66069
Toluene	ND	0.048		mg/Kg	1	3/11/2022 7:09:00 PM	66069
Ethylbenzene	ND	0.048		mg/Kg	1	3/11/2022 7:09:00 PM	66069
Xylenes, Total	ND	0.095		mg/Kg	1	3/11/2022 7:09:00 PM	66069
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	3/11/2022 7:09:00 PM	66069

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

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

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

WO#: 2203511

21-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66186	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66186	RunNo: 86503								
Prep Date: 3/15/2022	Analysis Date: 3/15/2022	SeqNo: 3052498	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66186	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66186	RunNo: 86503								
Prep Date: 3/15/2022	Analysis Date: 3/15/2022	SeqNo: 3052499	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

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

WO#: 2203511

21-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66078	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 66078		RunNo: 86412							
Prep Date: 3/10/2022	Analysis Date: 3/11/2022		SeqNo: 3048356		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	51.1	141			

Sample ID: MB-66080	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66080		RunNo: 86415							
Prep Date: 3/10/2022	Analysis Date: 3/11/2022		SeqNo: 3048561		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	51.1	141			

Sample ID: LCS-66080	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 66080		RunNo: 86415							
Prep Date: 3/10/2022	Analysis Date: 3/11/2022		SeqNo: 3048563		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.5	68.9	135			
Surr: DNOP	4.9		5.000		98.7	51.1	141			

Qualifiers:

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

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

WO#: 2203511

21-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: lcs-66069	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66069			RunNo: 86409						
Prep Date: 3/9/2022	Analysis Date: 3/11/2022			SeqNo: 3048222	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	78.6	131			
Surr: BFB	2300		1000		229	70	130			S

Sample ID: mb-66069	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66069			RunNo: 86409						
Prep Date: 3/9/2022	Analysis Date: 3/11/2022			SeqNo: 3048223	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Qualifiers:

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

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

WO#: 2203511

21-Mar-22

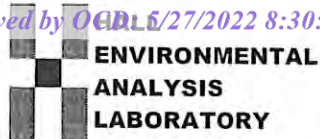
Client: GHD Midland
Project: Gerard AW Battery

Sample ID: ics-66069	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66069			RunNo: 86409						
Prep Date: 3/9/2022	Analysis Date: 3/11/2022			SeqNo: 3048229		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	85.1	80	120			
Toluene	0.87	0.050	1.000	0	87.2	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.9	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			

Sample ID: mb-66069	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66069			RunNo: 86409						
Prep Date: 3/9/2022	Analysis Date: 3/11/2022			SeqNo: 3048230		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	70	130			

Qualifiers:

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



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: 2203511

RcptNo: 1

Received By: Sean Livingston 3/9/2022 8:00:00 AM

Completed By: Sean Livingston 3/9/2022 9:17:25 AM

Reviewed By: *me*

3/9/22

Sean Livingston
Sean Livingston

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

(Note discrepancies on chain of custody)

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

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JA 3/9/22*Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				
2	2.9	Good				

Chain-of-Custody Record

Client: GHD

Turn-Around Time:

☒ Standard☒ Rush 5 Day

Project Name:

Gerard AW Battery

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #:

(432) 686-0086

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

QA/QC Package:

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

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Date Time Matrix Sample Name

3/8/22 1410 S BH-1

1415 BH-2

1420 BH-3

1425 X BH-4

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.5 ± 0.5 °C

Container Type and #

4oz Jar/1

1

1

X

Preservative Type

N/A

1

1

2

HEAL No.

2.9 ± 0.2.900

2203511

001

002

003

004

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice: ☒ Yes ☐ No



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

March 21, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203567

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/10/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203567

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-5

Project: Gerard AW Battery

Collection Date: 3/8/2022 12:30:00 PM

Lab ID: 2203567-001

Matrix: SOIL

Received Date: 3/10/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	920	60		mg/Kg	20	3/15/2022 11:46:22 PM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	9.7	9.3		mg/Kg	1	3/14/2022 6:13:30 PM	66116
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/14/2022 6:13:30 PM	66116
Surr: DNOP	82.0	51.1-141		%Rec	1	3/14/2022 6:13:30 PM	66116
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2022 8:14:00 AM	66096
Surr: BFB	101	70-130		%Rec	1	3/13/2022 8:14:00 AM	66096
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/13/2022 8:14:00 AM	66096
Toluene	ND	0.048		mg/Kg	1	3/13/2022 8:14:00 AM	66096
Ethylbenzene	ND	0.048		mg/Kg	1	3/13/2022 8:14:00 AM	66096
Xylenes, Total	ND	0.096		mg/Kg	1	3/13/2022 8:14:00 AM	66096
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	3/13/2022 8:14:00 AM	66096

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

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

Analytical Report

Lab Order 2203567

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-6

Project: Gerard AW Battery

Collection Date: 3/8/2022 12:35:00 PM

Lab ID: 2203567-002

Matrix: SOIL

Received Date: 3/10/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	970	60		mg/Kg	20	3/15/2022 11:58:47 PM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	110	9.2		mg/Kg	1	3/14/2022 8:58:38 AM	66116
Motor Oil Range Organics (MRO)	100	46		mg/Kg	1	3/14/2022 8:58:38 AM	66116
Surr: DNOP	114	51.1-141		%Rec	1	3/14/2022 8:58:38 AM	66116
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2022 8:34:00 AM	66096
Surr: BFB	106	70-130		%Rec	1	3/13/2022 8:34:00 AM	66096
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/13/2022 8:34:00 AM	66096
Toluene	ND	0.048		mg/Kg	1	3/13/2022 8:34:00 AM	66096
Ethylbenzene	ND	0.048		mg/Kg	1	3/13/2022 8:34:00 AM	66096
Xylenes, Total	ND	0.097		mg/Kg	1	3/13/2022 8:34:00 AM	66096
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/13/2022 8:34:00 AM	66096

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

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

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

WO#: 2203567

21-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66186	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66186	RunNo: 86503								
Prep Date: 3/15/2022	Analysis Date: 3/15/2022	SeqNo: 3052498	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66186	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66186	RunNo: 86503								
Prep Date: 3/15/2022	Analysis Date: 3/15/2022	SeqNo: 3052499	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

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

WO#: 2203567

21-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66116	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66116	RunNo: 86439								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050132	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	51.1	141			

Sample ID: MB-66117	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66117	RunNo: 86439								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050133	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.5	51.1	141			

Sample ID: LCS-66116	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66116	RunNo: 86439								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050134	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	95.1	68.9	135			
Surr: DNOP	4.3		5.000		85.7	51.1	141			

Sample ID: LCS-66117	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66117	RunNo: 86439								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050135	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		121	51.1	141			

Qualifiers:

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

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

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

WO#: 2203567

21-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: lcs-66096	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66096			RunNo: 86449						
Prep Date: 3/10/2022	Analysis Date: 3/12/2022			SeqNo: 3050047	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	119	78.6	131			
Surr: BFB	2400		1000		238	70	130			S

Sample ID: mb-66096	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66096			RunNo: 86449						
Prep Date: 3/10/2022	Analysis Date: 3/12/2022			SeqNo: 3050048	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	70	130			

Qualifiers:

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

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

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

WO#: 2203567

21-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: ics-66096	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66096			RunNo: 86449						
Prep Date: 3/10/2022	Analysis Date: 3/12/2022			SeqNo: 3050103		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.2	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: mb-66096	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66096			RunNo: 86449						
Prep Date: 3/10/2022	Analysis Date: 3/12/2022			SeqNo: 3050104		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.2	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203567

RcptNo: 1

Received By: Sean Livingston 3/10/2022 8:00:00 AM

Completed By: Kasandra Payan 3/10/2022 8:23:31 AM

Reviewed By: *One* 3/10/22

Se-L
K/P

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: *yn 3/10/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard ☒ Rush 5 days

Project Name:

Gerard A W Battery

Project #:

11228976

Project Manager:

Becky Haskell

Tom Larson

Sampler: Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 1.2 to 1.2°C

Container Type and #

4 oz. Jars / 1

Preservative Type

n/a

HEAL No.

2203567

Sample Name

BH-5

BH-6

Date

3/8/22

1230

1235

Date:

3/8/22

Time:

1530

Received by:

Via:

Date

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3/10/22

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3/10/22

8:00

Date



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

March 17, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203661

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/11/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203661

Date Reported: 3/17/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: XTP-16'

Project: Gerard AW Battery

Collection Date: 3/9/2022 1:15:00 PM

Lab ID: 2203661-001

Matrix: MEOH (SOIL)

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5800	300		mg/Kg	100	3/15/2022 12:49:54 PM	66147
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	250	9.8		mg/Kg	1	3/11/2022 10:03:41 AM	66112
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	3/11/2022 10:03:41 AM	66112
Surr: DNOP	104	51.1-141		%Rec	1	3/11/2022 10:03:41 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	3/12/2022 4:30:00 PM	R86449
Surr: BFB	124	70-130		%Rec	5	3/12/2022 4:30:00 PM	R86449
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.086		mg/Kg	5	3/12/2022 4:30:00 PM	BS86449
Toluene	ND	0.17		mg/Kg	5	3/12/2022 4:30:00 PM	BS86449
Ethylbenzene	ND	0.17		mg/Kg	5	3/12/2022 4:30:00 PM	BS86449
Xylenes, Total	ND	0.34		mg/Kg	5	3/12/2022 4:30:00 PM	BS86449
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	5	3/12/2022 4:30:00 PM	BS86449

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

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

Analytical Report

Lab Order 2203661

Date Reported: 3/17/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: XTP-17'

Project: Gerard AW Battery

Collection Date: 3/9/2022 1:20:00 PM

Lab ID: 2203661-002

Matrix: MEOH (SOIL)

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	7500	300		mg/Kg	100	3/15/2022 1:02:14 PM	66147
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	200	9.8		mg/Kg	1	3/11/2022 10:14:27 AM	66112
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	3/11/2022 10:14:27 AM	66112
Surr: DNOP	100	51.1-141		%Rec	1	3/11/2022 10:14:27 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	3/12/2022 5:48:00 PM	R86449
Surr: BFB	112	70-130		%Rec	5	3/12/2022 5:48:00 PM	R86449
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.10		mg/Kg	5	3/12/2022 5:48:00 PM	BS86449
Toluene	ND	0.21		mg/Kg	5	3/12/2022 5:48:00 PM	BS86449
Ethylbenzene	ND	0.21		mg/Kg	5	3/12/2022 5:48:00 PM	BS86449
Xylenes, Total	ND	0.41		mg/Kg	5	3/12/2022 5:48:00 PM	BS86449
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	5	3/12/2022 5:48:00 PM	BS86449

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

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

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

WO#: 2203661

17-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66147	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66147	RunNo: 86455								
Prep Date: 3/14/2022	Analysis Date: 3/14/2022	SeqNo: 3050753	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66147	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66147	RunNo: 86455								
Prep Date: 3/14/2022	Analysis Date: 3/14/2022	SeqNo: 3050754	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

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

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

WO#: 2203661

17-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66112	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66112	RunNo: 86399								
Prep Date: 3/11/2022	Analysis Date: 3/11/2022	SeqNo: 3047706			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.4	51.1	141			

Sample ID: LCS-66112	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66112	RunNo: 86399								
Prep Date: 3/11/2022	Analysis Date: 3/11/2022	SeqNo: 3047776			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	88.9	68.9	135			
Surr: DNOP	4.0		5.000		79.5	51.1	141			

Sample ID: LCS-66078	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66078	RunNo: 86412								
Prep Date: 3/10/2022	Analysis Date: 3/11/2022	SeqNo: 3048356			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	51.1	141			

Qualifiers:

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

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

WO#: 2203661

17-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: R86449			RunNo: 86449						
Prep Date:	Analysis Date: 3/12/2022			SeqNo: 3050032		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1200		1000		125	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: R86449			RunNo: 86449						
Prep Date:	Analysis Date: 3/12/2022			SeqNo: 3050033		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-66096	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66096			RunNo: 86449						
Prep Date: 3/10/2022	Analysis Date: 3/12/2022			SeqNo: 3050047		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2400		1000		238	70	130			S

Sample ID: mb-66096	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66096			RunNo: 86449						
Prep Date: 3/10/2022	Analysis Date: 3/12/2022			SeqNo: 3050048		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	70	130			

Qualifiers:

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

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

WO#: 2203661

17-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: BS86449			RunNo: 86449						
Prep Date:	Analysis Date: 3/12/2022			SeqNo: 3050088		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	80	120			
Toluene	0.98	0.050	1.000	0	98.4	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: BS86449			RunNo: 86449						
Prep Date:	Analysis Date: 3/12/2022			SeqNo: 3050089		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	70	130			

Sample ID: lcs-66096	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66096			RunNo: 86449						
Prep Date: 3/10/2022	Analysis Date: 3/12/2022			SeqNo: 3050103		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: mb-66096	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66096			RunNo: 86449						
Prep Date: 3/10/2022	Analysis Date: 3/12/2022			SeqNo: 3050104		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		87.2	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203661

RcptNo: 1

Received By: Sean Livingston 3/11/2022 8:00:00 AM

Completed By: Sean Livingston 3/11/2022 8:26:43 AM

Reviewed By: *TL*

3/11/22

Sean Livingston
Sean Livingston
[Signature]

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? *[Signature]*

Checked by: *TL 3/11/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: GHD

Turn-Around Time:

☐ Standard ☒ Rush 24

Project Name:

Gerard AW Battery

Project #:

11228976

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

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

QA/QC Package:

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

Project Manager:

Becky Haskell

Tom Larson

Sampler: Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 2.4 ± 0.2 = 2.4°CContainer Type and # Preservative Type HEAL No. 2207661400 Jar / 1 n/A1 1



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

March 23, 2022

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

RE: Gerard AW Batttery

OrderNo.: 2203833

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/16/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203833

Date Reported: 3/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-1

Project: Gerard AW Batttery

Collection Date: 3/14/2022 3:11:00 PM

Lab ID: 2203833-001

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4500	150		mg/Kg	50	3/17/2022 6:20:58 AM	66225
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	680	9.9		mg/Kg	1	3/16/2022 5:55:39 PM	66204
Motor Oil Range Organics (MRO)	280	49		mg/Kg	1	3/16/2022 5:55:39 PM	66204
Surr: DNOP	99.4	51.1-141		%Rec	1	3/16/2022 5:55:39 PM	66204
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	3/16/2022 2:48:00 PM	66198
Surr: BFB	113	70-130		%Rec	5	3/16/2022 2:48:00 PM	66198
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.094		mg/Kg	5	3/16/2022 2:48:00 PM	66198
Toluene	ND	0.19		mg/Kg	5	3/16/2022 2:48:00 PM	66198
Ethylbenzene	ND	0.19		mg/Kg	5	3/16/2022 2:48:00 PM	66198
Xylenes, Total	ND	0.38		mg/Kg	5	3/16/2022 2:48:00 PM	66198
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	5	3/16/2022 2:48:00 PM	66198

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

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

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Analytical Report

Lab Order 2203833

Date Reported: 3/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-2

Project: Gerard AW Batttery

Collection Date: 3/14/2022 3:08:00 PM

Lab ID: 2203833-002

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4600	150		mg/Kg	50	3/17/2022 6:33:19 AM	66225
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1500	96		mg/Kg	10	3/17/2022 12:08:49 PM	66204
Motor Oil Range Organics (MRO)	540	480		mg/Kg	10	3/17/2022 12:08:49 PM	66204
Surr: DNOP	0	51.1-141	S	%Rec	10	3/17/2022 12:08:49 PM	66204
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	3/16/2022 3:08:00 PM	66198
Surr: BFB	124	70-130		%Rec	5	3/16/2022 3:08:00 PM	66198
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.092		mg/Kg	5	3/16/2022 3:08:00 PM	66198
Toluene	ND	0.18		mg/Kg	5	3/16/2022 3:08:00 PM	66198
Ethylbenzene	ND	0.18		mg/Kg	5	3/16/2022 3:08:00 PM	66198
Xylenes, Total	ND	0.37		mg/Kg	5	3/16/2022 3:08:00 PM	66198
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	5	3/16/2022 3:08:00 PM	66198

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

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

Analytical Report

Lab Order 2203833

Date Reported: 3/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-3

Project: Gerard AW Batttery

Collection Date: 3/14/2022 3:05:00 PM

Lab ID: 2203833-003

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	600	59		mg/Kg	20	3/17/2022 12:26:24 AM	66225
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2400	100		mg/Kg	10	3/16/2022 7:20:48 PM	66204
Motor Oil Range Organics (MRO)	1100	500		mg/Kg	10	3/16/2022 7:20:48 PM	66204
Surr: DNOP	0	51.1-141	S	%Rec	10	3/16/2022 7:20:48 PM	66204
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	29	27		mg/Kg	5	3/16/2022 3:27:00 PM	66198
Surr: BFB	175	70-130	S	%Rec	5	3/16/2022 3:27:00 PM	66198
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.14		mg/Kg	5	3/16/2022 3:27:00 PM	66198
Toluene	ND	0.27		mg/Kg	5	3/16/2022 3:27:00 PM	66198
Ethylbenzene	ND	0.27		mg/Kg	5	3/16/2022 3:27:00 PM	66198
Xylenes, Total	ND	0.54		mg/Kg	5	3/16/2022 3:27:00 PM	66198
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	3/16/2022 3:27:00 PM	66198

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

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

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Analytical Report

Lab Order 2203833

Date Reported: 3/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-4

Project: Gerard AW Batttery

Collection Date: 3/14/2022 3:14:00 PM

Lab ID: 2203833-004

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	680	59		mg/Kg	20	3/17/2022 12:38:49 AM	66225
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	610	10		mg/Kg	1	3/16/2022 6:38:08 PM	66204
Motor Oil Range Organics (MRO)	320	50		mg/Kg	1	3/16/2022 6:38:08 PM	66204
Surr: DNOP	112	51.1-141		%Rec	1	3/16/2022 6:38:08 PM	66204
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	3/16/2022 3:47:00 PM	66198
Surr: BFB	108	70-130		%Rec	5	3/16/2022 3:47:00 PM	66198
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.10		mg/Kg	5	3/16/2022 3:47:00 PM	66198
Toluene	ND	0.20		mg/Kg	5	3/16/2022 3:47:00 PM	66198
Ethylbenzene	ND	0.20		mg/Kg	5	3/16/2022 3:47:00 PM	66198
Xylenes, Total	ND	0.41		mg/Kg	5	3/16/2022 3:47:00 PM	66198
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	5	3/16/2022 3:47:00 PM	66198

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

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

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Analytical Report

Lab Order 2203833

Date Reported: 3/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-5

Project: Gerard AW Batttery

Collection Date: 3/14/2022 3:30:00 PM

Lab ID: 2203833-005

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2800	150		mg/Kg	50	3/17/2022 6:45:39 AM	66225
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/16/2022 6:59:25 PM	66204
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/16/2022 6:59:25 PM	66204
Surr: DNOP	103	51.1-141		%Rec	1	3/16/2022 6:59:25 PM	66204
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	3/16/2022 4:07:00 PM	66198
Surr: BFB	109	70-130		%Rec	1	3/16/2022 4:07:00 PM	66198
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.017		mg/Kg	1	3/16/2022 4:07:00 PM	66198
Toluene	ND	0.034		mg/Kg	1	3/16/2022 4:07:00 PM	66198
Ethylbenzene	ND	0.034		mg/Kg	1	3/16/2022 4:07:00 PM	66198
Xylenes, Total	ND	0.068		mg/Kg	1	3/16/2022 4:07:00 PM	66198
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	3/16/2022 4:07:00 PM	66198

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

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

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Analytical Report

Lab Order 2203833

Date Reported: 3/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-6

Project: Gerard AW Batttery

Collection Date: 3/14/2022 3:33:00 PM

Lab ID: 2203833-006

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2400	61		mg/Kg	20	3/17/2022 1:03:38 AM	66225
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4300	97		mg/Kg	10	3/16/2022 7:31:30 PM	66204
Motor Oil Range Organics (MRO)	1700	480		mg/Kg	10	3/16/2022 7:31:30 PM	66204
Surr: DNOP	0	51.1-141	S	%Rec	10	3/16/2022 7:31:30 PM	66204
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	150	17		mg/Kg	5	3/16/2022 4:26:00 PM	66198
Surr: BFB	267	70-130	S	%Rec	5	3/16/2022 4:26:00 PM	66198
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.085		mg/Kg	5	3/16/2022 4:26:00 PM	66198
Toluene	ND	0.17		mg/Kg	5	3/16/2022 4:26:00 PM	66198
Ethylbenzene	2.2	0.17		mg/Kg	5	3/16/2022 4:26:00 PM	66198
Xylenes, Total	1.5	0.34		mg/Kg	5	3/16/2022 4:26:00 PM	66198
Surr: 4-Bromofluorobenzene	157	70-130	S	%Rec	5	3/16/2022 4:26:00 PM	66198

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

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

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Analytical Report

Lab Order 2203833

Date Reported: 3/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: XTP-9

Project: Gerard AW Batttery

Collection Date: 3/14/2022 10:30:00 AM

Lab ID: 2203833-007

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	6400	300		mg/Kg	100	3/17/2022 6:58:00 AM	66225
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/16/2022 7:10:06 PM	66204
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/16/2022 7:10:06 PM	66204
Surr: DNOP	99.0	51.1-141		%Rec	1	3/16/2022 7:10:06 PM	66204
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	3/16/2022 4:46:00 PM	66198
Surr: BFB	108	70-130		%Rec	1	3/16/2022 4:46:00 PM	66198
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.016		mg/Kg	1	3/16/2022 4:46:00 PM	66198
Toluene	ND	0.032		mg/Kg	1	3/16/2022 4:46:00 PM	66198
Ethylbenzene	ND	0.032		mg/Kg	1	3/16/2022 4:46:00 PM	66198
Xylenes, Total	ND	0.064		mg/Kg	1	3/16/2022 4:46:00 PM	66198
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	3/16/2022 4:46:00 PM	66198

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

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

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

WO#: 2203833

23-Mar-22

Client: GHD Midland
Project: Gerard AW Batttery

Sample ID: MB-66225	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66225	RunNo: 86531								
Prep Date: 3/16/2022	Analysis Date: 3/16/2022	SeqNo: 3053728	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66225	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66225	RunNo: 86531								
Prep Date: 3/16/2022	Analysis Date: 3/16/2022	SeqNo: 3053729	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Qualifiers:

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

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

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

WO#: 2203833

23-Mar-22

Client: GHD Midland
Project: Gerard AW Batttery

Sample ID: LCS-66204	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 66204		RunNo: 86505							
Prep Date: 3/16/2022	Analysis Date: 3/16/2022		SeqNo: 3052645		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.7	68.9	135			
Surr: DNOP	4.6		5.000		92.3	51.1	141			

Sample ID: MB-66204	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66204		RunNo: 86505							
Prep Date: 3/16/2022	Analysis Date: 3/16/2022		SeqNo: 3052646		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		92.2	51.1	141			

Qualifiers:

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

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

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

WO#: 2203833

23-Mar-22

Client: GHD Midland
Project: Gerard AW Batttery

Sample ID: mb-66198	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66198	RunNo: 86499								
Prep Date: 3/15/2022	Analysis Date: 3/16/2022	SeqNo: 3052369	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: lcs-66198	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66198	RunNo: 86499								
Prep Date: 3/15/2022	Analysis Date: 3/16/2022	SeqNo: 3052374	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	78.6	131			
Surr: BFB	2300		1000		235	70	130			S

Qualifiers:

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

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

WO#: 2203833

23-Mar-22

Client: GHD Midland
Project: Gerard AW Batttery

Sample ID: lcs-66198	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 66198				RunNo: 86499					
Prep Date: 3/15/2022	Analysis Date: 3/16/2022				SeqNo: 3052378	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	96.9	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	70	130			

Sample ID: mb-66198	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 66198				RunNo: 86499					
Prep Date: 3/15/2022	Analysis Date: 3/16/2022				SeqNo: 3052379	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Qualifiers:

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

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



**ENVIRONMENTAL
ANALYSIS
LABORATORY**

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203833

RcptNo: 1

Received By: Tracy Casarrubias

3/16/2022 8:00:00 AM

Completed By: Tracy Casarrubias

3/16/2022 9:21:15 AM

Reviewed By: Jn 3/16/22

Chain of Custody

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

[Log In](#)

- | | | | |
|--|---|--|---|
| 3. Was an attempt made to cool the samples? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | # of preserved bottles checked for pH: (<2) |
| 12. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Adjusted? |
| 13. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Checked by: _____ |

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	5.3	Good	Yes			



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

March 25, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203832

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/16/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203832

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8

Project: Gerard AW Battery

Collection Date: 3/14/2022 3:26:00 PM

Lab ID: 2203832-001

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2600	150		mg/Kg	50	3/23/2022 10:37:54 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	480	8.9		mg/Kg	1	3/17/2022 3:45:40 PM	66213
Motor Oil Range Organics (MRO)	200	44		mg/Kg	1	3/17/2022 3:45:40 PM	66213
Surr: DNOP	103	51.1-141		%Rec	1	3/17/2022 3:45:40 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/17/2022 11:55:00 AM	66221
Surr: BFB	140	70-130	S	%Rec	5	3/17/2022 11:55:00 AM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/17/2022 11:55:00 AM	66221
Toluene	ND	0.24		mg/Kg	5	3/17/2022 11:55:00 AM	66221
Ethylbenzene	ND	0.24		mg/Kg	5	3/17/2022 11:55:00 AM	66221
Xylenes, Total	ND	0.48		mg/Kg	5	3/17/2022 11:55:00 AM	66221
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	5	3/17/2022 11:55:00 AM	66221

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

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

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Analytical Report

Lab Order 2203832

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-9

Project: Gerard AW Battery

Collection Date: 3/14/2022 3:23:00 PM

Lab ID: 2203832-002

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/21/2022 8:46:52 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	810	9.3		mg/Kg	1	3/17/2022 4:06:55 PM	66213
Motor Oil Range Organics (MRO)	310	46		mg/Kg	1	3/17/2022 4:06:55 PM	66213
Surr: DNOP	135	51.1-141		%Rec	1	3/17/2022 4:06:55 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/17/2022 12:53:00 PM	66221
Surr: BFB	163	70-130	S	%Rec	5	3/17/2022 12:53:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/17/2022 12:53:00 PM	66221
Toluene	ND	0.24		mg/Kg	5	3/17/2022 12:53:00 PM	66221
Ethylbenzene	ND	0.24		mg/Kg	5	3/17/2022 12:53:00 PM	66221
Xylenes, Total	ND	0.48		mg/Kg	5	3/17/2022 12:53:00 PM	66221
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	5	3/17/2022 12:53:00 PM	66221

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

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

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Analytical Report

Lab Order 2203832

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-10

Project: Gerard AW Battery

Collection Date: 3/14/2022 3:20:00 PM

Lab ID: 2203832-003

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	3/21/2022 9:24:05 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	68	9.9		mg/Kg	1	3/17/2022 4:28:10 PM	66213
Motor Oil Range Organics (MRO)	51	49		mg/Kg	1	3/17/2022 4:28:10 PM	66213
Surr: DNOP	105	51.1-141		%Rec	1	3/17/2022 4:28:10 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/17/2022 1:13:00 PM	66221
Surr: BFB	112	70-130		%Rec	5	3/17/2022 1:13:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/17/2022 1:13:00 PM	66221
Toluene	ND	0.24		mg/Kg	5	3/17/2022 1:13:00 PM	66221
Ethylbenzene	ND	0.24		mg/Kg	5	3/17/2022 1:13:00 PM	66221
Xylenes, Total	ND	0.48		mg/Kg	5	3/17/2022 1:13:00 PM	66221
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	5	3/17/2022 1:13:00 PM	66221

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

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

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Analytical Report

Lab Order 2203832

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-11

Project: Gerard AW Battery

Collection Date: 3/14/2022 3:17:00 PM

Lab ID: 2203832-004

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	710	60		mg/Kg	20	3/21/2022 9:36:30 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	360	9.7		mg/Kg	1	3/17/2022 4:38:52 PM	66213
Motor Oil Range Organics (MRO)	170	48		mg/Kg	1	3/17/2022 4:38:52 PM	66213
Surr: DNOP	109	51.1-141		%Rec	1	3/17/2022 4:38:52 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/17/2022 1:33:00 PM	66221
Surr: BFB	130	70-130	S	%Rec	5	3/17/2022 1:33:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/17/2022 1:33:00 PM	66221
Toluene	ND	0.24		mg/Kg	5	3/17/2022 1:33:00 PM	66221
Ethylbenzene	ND	0.24		mg/Kg	5	3/17/2022 1:33:00 PM	66221
Xylenes, Total	ND	0.49		mg/Kg	5	3/17/2022 1:33:00 PM	66221
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	5	3/17/2022 1:33:00 PM	66221

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

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

Analytical Report

Lab Order 2203832

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-4

Project: Gerard AW Battery

Collection Date: 3/14/2022 3:01:00 PM

Lab ID: 2203832-005

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	150	61		mg/Kg	20	3/21/2022 9:48:54 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	110	10		mg/Kg	1	3/19/2022 12:41:03 AM	66213
Motor Oil Range Organics (MRO)	210	50		mg/Kg	1	3/19/2022 12:41:03 AM	66213
Surr: DNOP	55.8	51.1-141		%Rec	1	3/19/2022 12:41:03 AM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2022 1:53:00 PM	66221
Surr: BFB	105	70-130		%Rec	1	3/17/2022 1:53:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/17/2022 1:53:00 PM	66221
Toluene	ND	0.048		mg/Kg	1	3/17/2022 1:53:00 PM	66221
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2022 1:53:00 PM	66221
Xylenes, Total	ND	0.097		mg/Kg	1	3/17/2022 1:53:00 PM	66221
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	3/17/2022 1:53:00 PM	66221

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

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

Analytical Report

Lab Order 2203832

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-5

Project: Gerard AW Battery

Collection Date: 3/14/2022 2:58:00 PM

Lab ID: 2203832-006

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/21/2022 10:01:18 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	12	10		mg/Kg	1	3/17/2022 5:10:46 PM	66213
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/17/2022 5:10:46 PM	66213
Surr: DNOP	136	51.1-141		%Rec	1	3/17/2022 5:10:46 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2022 2:12:00 PM	66221
Surr: BFB	107	70-130		%Rec	1	3/17/2022 2:12:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/17/2022 2:12:00 PM	66221
Toluene	ND	0.048		mg/Kg	1	3/17/2022 2:12:00 PM	66221
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2022 2:12:00 PM	66221
Xylenes, Total	ND	0.096		mg/Kg	1	3/17/2022 2:12:00 PM	66221
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	3/17/2022 2:12:00 PM	66221

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

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

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Analytical Report

Lab Order 2203832

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-8

Project: Gerard AW Battery

Collection Date: 3/14/2022 2:55:00 PM

Lab ID: 2203832-007

Matrix: SOIL

Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	460	60		mg/Kg	20	3/21/2022 10:13:43 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/17/2022 5:21:26 PM	66213
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/17/2022 5:21:26 PM	66213
Surr: DNOP	103	51.1-141		%Rec	1	3/17/2022 5:21:26 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2022 2:32:00 PM	66221
Surr: BFB	105	70-130		%Rec	1	3/17/2022 2:32:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/17/2022 2:32:00 PM	66221
Toluene	ND	0.048		mg/Kg	1	3/17/2022 2:32:00 PM	66221
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2022 2:32:00 PM	66221
Xylenes, Total	ND	0.096		mg/Kg	1	3/17/2022 2:32:00 PM	66221
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	3/17/2022 2:32:00 PM	66221

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

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

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

WO#: 2203832

25-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66306	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66306	RunNo: 86641								
Prep Date: 3/21/2022	Analysis Date: 3/21/2022	SeqNo: 3058800	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66306	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66306	RunNo: 86641								
Prep Date: 3/21/2022	Analysis Date: 3/21/2022	SeqNo: 3058801	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Sample ID: MB-66306	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66306	RunNo: 86682								
Prep Date: 3/21/2022	Analysis Date: 3/22/2022	SeqNo: 3060597	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66306	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66306	RunNo: 86682								
Prep Date: 3/21/2022	Analysis Date: 3/22/2022	SeqNo: 3060598	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

Qualifiers:

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

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

WO#: 2203832

25-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66213	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 66213		RunNo: 86542							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022		SeqNo: 3055282		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	95.4	68.9	135			
Surr: DNOP	4.4		5.000		88.4	51.1	141			

Sample ID: MB-66213	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66213		RunNo: 86542							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022		SeqNo: 3055286		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.7	51.1	141			

Qualifiers:

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

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

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

WO#: 2203832

25-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: lcs-66221	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66221		RunNo: 86561							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022		SeqNo: 3054912		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	78.6	131			
Surr: BFB	2300		1000		232	70	130			S

Sample ID: mb-66221	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66221		RunNo: 86561							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022		SeqNo: 3054914		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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203832

25-Mar-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: lcs-66221	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66221		RunNo: 86561							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022		SeqNo: 3054937		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.6	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	70	130			

Sample ID: mb-66221	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66221		RunNo: 86561							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022		SeqNo: 3054938		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.4	70	130			

Sample ID: 2203832-001ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-8	Batch ID: 66221		RunNo: 86561							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022		SeqNo: 3054943		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.12	0.9615	0	100	68.8	120			
Toluene	0.99	0.24	0.9615	0	103	73.6	124			
Ethylbenzene	1.1	0.24	0.9615	0.08622	108	72.7	129			
Xylenes, Total	3.1	0.48	2.885	0	108	75.7	126			
Surr: 4-Bromofluorobenzene	4.4		4.808		91.2	70	130			

Sample ID: 2203832-001amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-8	Batch ID: 66221		RunNo: 86561							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022		SeqNo: 3054944		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.12	0.9524	0	91.0	68.8	120	10.6	20	
Toluene	0.93	0.24	0.9524	0	97.3	73.6	124	6.85	20	
Ethylbenzene	1.0	0.24	0.9524	0.08622	99.4	72.7	129	8.31	20	
Xylenes, Total	2.9	0.48	2.857	0	100	75.7	126	8.30	20	
Surr: 4-Bromofluorobenzene	4.3		4.762		89.6	70	130	0	0	

Qualifiers:

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



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: 2203832

RcptNo: 1

Received By: Tracy Casarrubias 3/16/2022 8:00:00 AM

Completed By: Tracy Casarrubias 3/16/2022 9:16:58 AM

Reviewed By: JR 3/16/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: KPG 3/16/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			



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

April 04, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203A87

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/19/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Ramp-1

Project: Gerard AW Battery

Collection Date: 3/17/2022 4:45:00 PM

Lab ID: 2203A87-001

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	510	60		mg/Kg	20	3/24/2022 4:22:11 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/22/2022 11:41:06 AM	66285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2022 11:41:06 AM	66285
Surr: DNOP	89.5	51.1-141		%Rec	1	3/22/2022 11:41:06 AM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/21/2022 8:58:46 PM	66280
Surr: BFB	109	37.7-212		%Rec	1	3/21/2022 8:58:46 PM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/21/2022 8:58:46 PM	66280
Toluene	ND	0.050		mg/Kg	1	3/21/2022 8:58:46 PM	66280
Ethylbenzene	ND	0.050		mg/Kg	1	3/21/2022 8:58:46 PM	66280
Xylenes, Total	ND	0.10		mg/Kg	1	3/21/2022 8:58:46 PM	66280
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	3/21/2022 8:58:46 PM	66280

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

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

Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-7

Project: Gerard AW Battery

Collection Date: 3/17/2022 4:49:00 PM

Lab ID: 2203A87-002

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	61		mg/Kg	20	3/24/2022 4:34:36 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/22/2022 11:51:36 AM	66285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2022 11:51:36 AM	66285
Surr: DNOP	81.4	51.1-141		%Rec	1	3/22/2022 11:51:36 AM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2022 11:19:41 PM	66280
Surr: BFB	108	37.7-212		%Rec	1	3/21/2022 11:19:41 PM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/21/2022 11:19:41 PM	66280
Toluene	ND	0.048		mg/Kg	1	3/21/2022 11:19:41 PM	66280
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2022 11:19:41 PM	66280
Xylenes, Total	ND	0.097		mg/Kg	1	3/21/2022 11:19:41 PM	66280
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/21/2022 11:19:41 PM	66280

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

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

Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-9

Project: Gerard AW Battery

Collection Date: 3/17/2022 4:53:00 PM

Lab ID: 2203A87-003

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/24/2022 4:47:01 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/22/2022 12:02:06 PM	66285
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2022 12:02:06 PM	66285
Surr: DNOP	75.7	51.1-141		%Rec	1	3/22/2022 12:02:06 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/22/2022 12:29:54 AM	66280
Surr: BFB	104	37.7-212		%Rec	1	3/22/2022 12:29:54 AM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/22/2022 12:29:54 AM	66280
Toluene	ND	0.049		mg/Kg	1	3/22/2022 12:29:54 AM	66280
Ethylbenzene	ND	0.049		mg/Kg	1	3/22/2022 12:29:54 AM	66280
Xylenes, Total	ND	0.098		mg/Kg	1	3/22/2022 12:29:54 AM	66280
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	3/22/2022 12:29:54 AM	66280

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

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

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Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-10

Project: Gerard AW Battery

Collection Date: 3/17/2022 4:57:00 PM

Lab ID: 2203A87-004

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	310	61		mg/Kg	20	3/24/2022 5:49:02 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/22/2022 12:12:39 PM	66285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2022 12:12:39 PM	66285
Surr: DNOP	83.5	51.1-141		%Rec	1	3/22/2022 12:12:39 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/22/2022 12:53:16 AM	66280
Surr: BFB	105	37.7-212		%Rec	1	3/22/2022 12:53:16 AM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/22/2022 12:53:16 AM	66280
Toluene	ND	0.048		mg/Kg	1	3/22/2022 12:53:16 AM	66280
Ethylbenzene	ND	0.048		mg/Kg	1	3/22/2022 12:53:16 AM	66280
Xylenes, Total	ND	0.096		mg/Kg	1	3/22/2022 12:53:16 AM	66280
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	3/22/2022 12:53:16 AM	66280

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

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

Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-11

Project: Gerard AW Battery

Collection Date: 3/17/2022 5:00:00 PM

Lab ID: 2203A87-005

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	330	60		mg/Kg	20	3/24/2022 6:01:27 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/22/2022 12:23:12 PM	66285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2022 12:23:12 PM	66285
Surr: DNOP	100	51.1-141		%Rec	1	3/22/2022 12:23:12 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/22/2022 1:16:36 AM	66280
Surr: BFB	105	37.7-212		%Rec	1	3/22/2022 1:16:36 AM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/22/2022 1:16:36 AM	66280
Toluene	ND	0.049		mg/Kg	1	3/22/2022 1:16:36 AM	66280
Ethylbenzene	ND	0.049		mg/Kg	1	3/22/2022 1:16:36 AM	66280
Xylenes, Total	ND	0.098		mg/Kg	1	3/22/2022 1:16:36 AM	66280
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	3/22/2022 1:16:36 AM	66280

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

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

Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-12

Project: Gerard AW Battery

Collection Date: 3/17/2022 5:04:00 PM

Lab ID: 2203A87-006

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	510	60		mg/Kg	20	3/24/2022 6:13:52 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/22/2022 12:33:45 PM	66300
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2022 12:33:45 PM	66300
Surr: DNOP	72.0	51.1-141		%Rec	1	3/22/2022 12:33:45 PM	66300
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/22/2022 1:39:58 AM	66280
Surr: BFB	107	37.7-212		%Rec	1	3/22/2022 1:39:58 AM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/22/2022 1:39:58 AM	66280
Toluene	ND	0.048		mg/Kg	1	3/22/2022 1:39:58 AM	66280
Ethylbenzene	ND	0.048		mg/Kg	1	3/22/2022 1:39:58 AM	66280
Xylenes, Total	ND	0.096		mg/Kg	1	3/22/2022 1:39:58 AM	66280
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	3/22/2022 1:39:58 AM	66280

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

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

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Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-13

Project: Gerard AW Battery

Collection Date: 3/17/2022 5:08:00 PM

Lab ID: 2203A87-007

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1100	60		mg/Kg	20	3/24/2022 6:26:17 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/22/2022 12:44:19 PM	66300
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2022 12:44:19 PM	66300
Surr: DNOP	79.2	51.1-141		%Rec	1	3/22/2022 12:44:19 PM	66300
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/22/2022 2:03:16 AM	66280
Surr: BFB	105	37.7-212		%Rec	1	3/22/2022 2:03:16 AM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/22/2022 2:03:16 AM	66280
Toluene	ND	0.048		mg/Kg	1	3/22/2022 2:03:16 AM	66280
Ethylbenzene	ND	0.048		mg/Kg	1	3/22/2022 2:03:16 AM	66280
Xylenes, Total	ND	0.096		mg/Kg	1	3/22/2022 2:03:16 AM	66280
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	3/22/2022 2:03:16 AM	66280

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

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

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Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-14

Project: Gerard AW Battery

Collection Date: 3/17/2022 5:12:00 PM

Lab ID: 2203A87-008

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2100	60		mg/Kg	20	3/24/2022 6:38:42 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/22/2022 12:54:53 PM	66300
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2022 12:54:53 PM	66300
Surr: DNOP	77.0	51.1-141		%Rec	1	3/22/2022 12:54:53 PM	66300
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/22/2022 2:26:36 AM	66280
Surr: BFB	107	37.7-212		%Rec	1	3/22/2022 2:26:36 AM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/22/2022 2:26:36 AM	66280
Toluene	ND	0.050		mg/Kg	1	3/22/2022 2:26:36 AM	66280
Ethylbenzene	ND	0.050		mg/Kg	1	3/22/2022 2:26:36 AM	66280
Xylenes, Total	ND	0.099		mg/Kg	1	3/22/2022 2:26:36 AM	66280
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	3/22/2022 2:26:36 AM	66280

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

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

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Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-15

Project: Gerard AW Battery

Collection Date: 3/17/2022 5:16:00 PM

Lab ID: 2203A87-009

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1500	60		mg/Kg	20	3/24/2022 6:51:07 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/22/2022 1:05:28 PM	66300
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2022 1:05:28 PM	66300
Surr: DNOP	79.0	51.1-141		%Rec	1	3/22/2022 1:05:28 PM	66300
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/22/2022 2:49:52 AM	66280
Surr: BFB	106	37.7-212		%Rec	1	3/22/2022 2:49:52 AM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/22/2022 2:49:52 AM	66280
Toluene	ND	0.050		mg/Kg	1	3/22/2022 2:49:52 AM	66280
Ethylbenzene	ND	0.050		mg/Kg	1	3/22/2022 2:49:52 AM	66280
Xylenes, Total	ND	0.10		mg/Kg	1	3/22/2022 2:49:52 AM	66280
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	3/22/2022 2:49:52 AM	66280

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

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

Analytical Report

Lab Order 2203A87

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Ramp-2

Project: Gerard AW Battery

Collection Date: 3/17/2022 5:20:00 PM

Lab ID: 2203A87-010

Matrix: SOIL

Received Date: 3/19/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	470	60		mg/Kg	20	3/24/2022 7:03:32 PM	66379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/22/2022 1:16:04 PM	66300
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/22/2022 1:16:04 PM	66300
Surr: DNOP	76.0	51.1-141		%Rec	1	3/22/2022 1:16:04 PM	66300
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/22/2022 3:13:12 AM	66280
Surr: BFB	104	37.7-212		%Rec	1	3/22/2022 3:13:12 AM	66280
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/22/2022 3:13:12 AM	66280
Toluene	ND	0.050		mg/Kg	1	3/22/2022 3:13:12 AM	66280
Ethylbenzene	ND	0.050		mg/Kg	1	3/22/2022 3:13:12 AM	66280
Xylenes, Total	ND	0.099		mg/Kg	1	3/22/2022 3:13:12 AM	66280
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	3/22/2022 3:13:12 AM	66280

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

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

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

WO#: 2203A87

04-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66379	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66379	RunNo: 86744								
Prep Date: 3/24/2022	Analysis Date: 3/24/2022	SeqNo: 3062850	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66379	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66379	RunNo: 86744								
Prep Date: 3/24/2022	Analysis Date: 3/24/2022	SeqNo: 3062851	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			

Qualifiers:

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

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

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

WO#: 2203A87

04-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2203A87-006AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-12	Batch ID: 66300	RunNo: 86644								
Prep Date: 3/21/2022	Analysis Date: 3/22/2022	SeqNo: 3058992 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.6	48.22	6.598	78.7	36.1	154			
Surr: DNOP	3.4		4.822		70.8	51.1	141			

Sample ID: 2203A87-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-12	Batch ID: 66300	RunNo: 86644								
Prep Date: 3/21/2022	Analysis Date: 3/22/2022	SeqNo: 3058993 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	49.75	6.598	90.9	36.1	154	15.1	33.9	
Surr: DNOP	4.2		4.975		84.9	51.1	141	0	0	

Sample ID: LCS-66285	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66285	RunNo: 86644								
Prep Date: 3/21/2022	Analysis Date: 3/22/2022	SeqNo: 3058999 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	89.6	68.9	135			
Surr: DNOP	3.7		5.000		74.7	51.1	141			

Sample ID: LCS-66300	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66300	RunNo: 86644								
Prep Date: 3/21/2022	Analysis Date: 3/22/2022	SeqNo: 3059000 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	91.3	68.9	135			
Surr: DNOP	3.8		5.000		76.8	51.1	141			

Sample ID: MB-66285	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66285	RunNo: 86644								
Prep Date: 3/21/2022	Analysis Date: 3/22/2022	SeqNo: 3059002 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.2	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2203A87
04-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66300	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66300	RunNo: 86644								
Prep Date: 3/21/2022	Analysis Date: 3/22/2022	SeqNo: 3059003	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.4	51.1	141			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2203A87

04-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-66280		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS		Batch ID: 66280		RunNo: 86621						
Prep Date: 3/20/2022		Analysis Date: 3/21/2022		SeqNo: 3057897		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Sample ID: 2203a87-001ams		SampType: MS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: Ramp-1		Batch ID: 66280			RunNo: 86621					
Prep Date: 3/20/2022		Analysis Date: 3/21/2022			SeqNo: 3057900		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	24.78	0	122	70	130			
Surr: BFB	2400		991.1		247	37.7	212			S

Sample ID: 2203a87-001amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: Ramp-1		Batch ID: 66280			RunNo: 86621					
Prep Date: 3/20/2022		Analysis Date: 3/21/2022			SeqNo: 3057901		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.9	24.65	0	131	70	130	7.05	20	S
Surr: BFB	2600		986.2		262	37.7	212	0	0	S

Sample ID: lcs-66280		SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS		Batch ID: 66280			RunNo: 86621						
Prep Date: 3/20/2022		Analysis Date: 3/21/2022			SeqNo: 3057968		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	72.3	137			
Surr: BFB		2200		1000		224	37.7	212			S

Qualifiers:

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

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

WO#: 2203A87

04-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-66280	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66280	RunNo: 86621								
Prep Date: 3/20/2022	Analysis Date: 3/21/2022	SeqNo: 3057943 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	70	130			

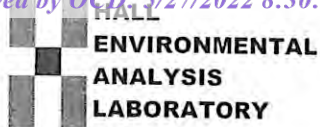
Sample ID: LCS-66280	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66280	RunNo: 86621								
Prep Date: 3/20/2022	Analysis Date: 3/21/2022	SeqNo: 3057945 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.3	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: 2203a87-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-7	Batch ID: 66280	RunNo: 86621								
Prep Date: 3/20/2022	Analysis Date: 3/21/2022	SeqNo: 3057956 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9775	0	93.6	68.8	120			
Toluene	0.98	0.049	0.9775	0	99.8	73.6	124			
Ethylbenzene	1.0	0.049	0.9775	0	103	72.7	129			
Xylenes, Total	3.0	0.098	2.933	0	104	75.7	126			
Surr: 4-Bromofluorobenzene	0.99		0.9775		102	70	130			

Sample ID: 2203a87-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-7	Batch ID: 66280	RunNo: 86621								
Prep Date: 3/20/2022	Analysis Date: 3/22/2022	SeqNo: 3057958 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9775	0	84.0	68.8	120	10.8	20	
Toluene	0.88	0.049	0.9775	0	90.2	73.6	124	10.1	20	
Ethylbenzene	0.90	0.049	0.9775	0	92.0	72.7	129	11.7	20	
Xylenes, Total	2.7	0.098	2.933	0	92.3	75.7	126	11.5	20	
Surr: 4-Bromofluorobenzene	0.95		0.9775		96.9	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203A87

RcptNo: 1

Received By: Isaiah Ortiz

3/19/2022 9:50:00 AM

I-OK

Completed By: Isaiah Ortiz

3/19/2022 10:52:35 AM

I-OK

Reviewed By: JW 03/19/2022

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

IO
3/19/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: _____

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Yes			



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

April 05, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203D66

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/25/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203D66

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-19

Project: Gerard AW Battery

Collection Date: 3/21/2022 11:30:00 AM

Lab ID: 2203D66-001

Matrix: SOIL

Received Date: 3/25/2022 7:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1900	60		mg/Kg	20	3/31/2022 3:12:51 PM	66532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	500	9.9		mg/Kg	1	3/30/2022 4:17:27 AM	66433
Motor Oil Range Organics (MRO)	220	50		mg/Kg	1	3/30/2022 4:17:27 AM	66433
Surr: DNOP	86.8	51.1-141		%Rec	1	3/30/2022 4:17:27 AM	66433
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2022 9:01:23 AM	66416
Surr: BFB	116	37.7-212		%Rec	1	3/30/2022 9:01:23 AM	66416
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2022 9:01:23 AM	66416
Toluene	ND	0.050		mg/Kg	1	3/30/2022 9:01:23 AM	66416
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2022 9:01:23 AM	66416
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2022 9:01:23 AM	66416
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	3/30/2022 9:01:23 AM	66416

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

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

Page 1 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203D66

05-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66532	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66532	RunNo: 86885								
Prep Date: 3/31/2022	Analysis Date: 3/31/2022	SeqNo: 3070545	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66532	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66532	RunNo: 86885								
Prep Date: 3/31/2022	Analysis Date: 3/31/2022	SeqNo: 3070546	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Page 2 of 5

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

WO#: 2203D66

05-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66433	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66433			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066789		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	68.9	135			
Surr: DNOP	3.8		5.000		75.1	51.1	141			

Sample ID: LCS-66443	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66443			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066791		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	51.1	141			

Sample ID: MB-66433	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66433			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066793		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	9.0		10.00		90.2	51.1	141			

Sample ID: MB-66443	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66443			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066795		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		99.6	51.1	141			

Qualifiers:

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

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

WO#: 2203D66

05-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-66416	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066214	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		97.0	37.7	212			

Sample ID: lcs-66416	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066215	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	2100		1000		209	37.7	212			

Qualifiers:

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

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

WO#: 2203D66

05-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

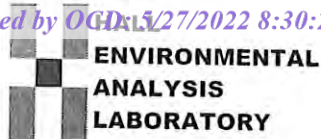
Sample ID: mb-66416	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066262	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	70	130			

Sample ID: LCS-66416	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066263	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	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 interference

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



Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203D66

RcptNo: 1

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

Completed By: Sean Livingston 3/25/2022 8:51:07 AM

Reviewed By: TME 3/25/22

Handwritten signatures:
 Cason
 Sean Livingston
 [Signature]

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: Jn 3/25/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: _____

17. Cooler Information

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



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

April 06, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203D64

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/25/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203D64

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-17

Project: Gerard AW Battery

Collection Date: 3/22/2022 12:50:00 PM

Lab ID: 2203D64-001

Matrix: SOIL

Received Date: 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3400	150		mg/Kg	50	4/1/2022 9:36:42 AM	66532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	460	9.5		mg/Kg	1	3/30/2022 3:56:05 AM	66433
Motor Oil Range Organics (MRO)	170	47		mg/Kg	1	3/30/2022 3:56:05 AM	66433
Surr: DNOP	83.0	51.1-141		%Rec	1	3/30/2022 3:56:05 AM	66433
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	24	4.9		mg/Kg	1	3/30/2022 8:37:50 AM	66416
Surr: BFB	327	37.7-212	S	%Rec	1	3/30/2022 8:37:50 AM	66416
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2022 8:37:50 AM	66416
Toluene	ND	0.049		mg/Kg	1	3/30/2022 8:37:50 AM	66416
Ethylbenzene	0.41	0.049		mg/Kg	1	3/30/2022 8:37:50 AM	66416
Xylenes, Total	0.12	0.098		mg/Kg	1	3/30/2022 8:37:50 AM	66416
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	3/30/2022 8:37:50 AM	66416

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2203D64
06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66532		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 66532		RunNo: 86885						
Prep Date: 3/31/2022		Analysis Date: 3/31/2022		SeqNo: 3070545		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66532		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 66532		RunNo: 86885						
Prep Date: 3/31/2022		Analysis Date: 3/31/2022		SeqNo: 3070546		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 interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2203D64

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66433	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66433			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066789	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	68.9	135			
Surr: DNOP	3.8		5.000		75.1	51.1	141			

Sample ID: MB-66433	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66433			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066793	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	9.0		10.00		90.2	51.1	141			

Qualifiers:

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

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

WO#: 2203D64

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-66416	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066214	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		97.0	37.7	212			

Sample ID: lcs-66416	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066215	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	2100		1000		209	37.7	212			

Qualifiers:

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

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

WO#: 2203D64

06-Apr-22

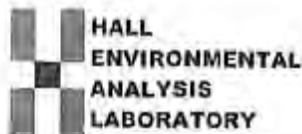
Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-66416	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066262	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	0.98		1.000		98.0	70	130			

Sample ID: LCS-66416	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066263	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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



Hall Environmental Analysis Laboratory
4901 Hawkeye NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-1107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203D64

RcptNo: 1

Received By: Cheyenne Cason

3/25/2022 7:23:00 AM

Completed By: Sean Livingston

3/25/2022 8:42:17 AM

Reviewed By: TMC

3/25/22

Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $\geq 0^{\circ}\text{C}$ 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 $\leq 1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH.

(<2 or >12 unless noted)

Adjusted?

Checked by: ja 3/25/22

Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good				
2	1.6	Good				
3	2.8	Good				



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

April 06, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203D63

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/25/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203D63

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-16

Project: Gerard AW Battery

Collection Date: 3/23/2022 12:45:00 PM

Lab ID: 2203D63-001

Matrix: SOIL

Received Date: 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	4800	150		mg/Kg	50	4/1/2022 12:17:09 PM	66549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1100	49		mg/Kg	5	3/30/2022 6:01:46 PM	66433
Motor Oil Range Organics (MRO)	430	250		mg/Kg	5	3/30/2022 6:01:46 PM	66433
Surr: DNOP	82.2	51.1-141		%Rec	5	3/30/2022 6:01:46 PM	66433
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	34	24		mg/Kg	5	3/30/2022 2:59:52 AM	66416
Surr: BFB	176	37.7-212		%Rec	5	3/30/2022 2:59:52 AM	66416
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/30/2022 2:59:52 AM	66416
Toluene	ND	0.24		mg/Kg	5	3/30/2022 2:59:52 AM	66416
Ethylbenzene	0.37	0.24		mg/Kg	5	3/30/2022 2:59:52 AM	66416
Xylenes, Total	ND	0.49		mg/Kg	5	3/30/2022 2:59:52 AM	66416
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	3/30/2022 2:59:52 AM	66416

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

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

Analytical Report

Lab Order 2203D63

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-18

Project: Gerard AW Battery

Collection Date: 3/23/2022 1:10:00 PM

Lab ID: 2203D63-002

Matrix: SOIL

Received Date: 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	4700	150		mg/Kg	50	4/1/2022 12:29:30 PM	66549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	960	47		mg/Kg	5	3/30/2022 5:50:59 PM	66433
Motor Oil Range Organics (MRO)	370	240		mg/Kg	5	3/30/2022 5:50:59 PM	66433
Surr: DNOP	90.2	51.1-141		%Rec	5	3/30/2022 5:50:59 PM	66433
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	67	24		mg/Kg	5	3/30/2022 3:23:27 AM	66416
Surr: BFB	234	37.7-212	S	%Rec	5	3/30/2022 3:23:27 AM	66416
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/30/2022 3:23:27 AM	66416
Toluene	ND	0.24		mg/Kg	5	3/30/2022 3:23:27 AM	66416
Ethylbenzene	1.4	0.24		mg/Kg	5	3/30/2022 3:23:27 AM	66416
Xylenes, Total	0.56	0.48		mg/Kg	5	3/30/2022 3:23:27 AM	66416
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	5	3/30/2022 3:23:27 AM	66416

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

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

Analytical Report

Lab Order 2203D63

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-20

Project: Gerard AW Battery

Collection Date: 3/23/2022 2:15:00 PM

Lab ID: 2203D63-003

Matrix: SOIL

Received Date: 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1700	60		mg/Kg	20	4/1/2022 5:24:42 AM	66549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/30/2022 3:02:43 AM	66433
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/30/2022 3:02:43 AM	66433
Surr: DNOP	65.6	51.1-141		%Rec	1	3/30/2022 3:02:43 AM	66433
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2022 3:47:02 AM	66416
Surr: BFB	99.9	37.7-212		%Rec	1	3/30/2022 3:47:02 AM	66416
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2022 3:47:02 AM	66416
Toluene	ND	0.049		mg/Kg	1	3/30/2022 3:47:02 AM	66416
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2022 3:47:02 AM	66416
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2022 3:47:02 AM	66416
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/30/2022 3:47:02 AM	66416

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

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

Analytical Report

Lab Order 2203D63

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-21

Project: Gerard AW Battery

Collection Date: 3/23/2022 2:20:00 PM

Lab ID: 2203D63-004

Matrix: SOIL

Received Date: 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2600	150		mg/Kg	50	4/1/2022 9:24:21 AM	66532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	120	9.7		mg/Kg	1	3/30/2022 3:13:29 AM	66433
Motor Oil Range Organics (MRO)	100	48		mg/Kg	1	3/30/2022 3:13:29 AM	66433
Surr: DNOP	77.3	51.1-141		%Rec	1	3/30/2022 3:13:29 AM	66433
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2022 7:50:44 AM	66416
Surr: BFB	94.9	37.7-212		%Rec	1	3/30/2022 7:50:44 AM	66416
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2022 7:50:44 AM	66416
Toluene	ND	0.050		mg/Kg	1	3/30/2022 7:50:44 AM	66416
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2022 7:50:44 AM	66416
Xylenes, Total	ND	0.10		mg/Kg	1	3/30/2022 7:50:44 AM	66416
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	3/30/2022 7:50:44 AM	66416

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

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

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Analytical Report

Lab Order 2203D63

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-22

Project: Gerard AW Battery

Collection Date: 3/23/2022 2:25:00 PM

Lab ID: 2203D63-005

Matrix: SOIL

Received Date: 3/25/2022 7:23:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1700	60		mg/Kg	20	3/31/2022 2:23:13 PM	66532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	100	9.2		mg/Kg	1	4/1/2022 11:21:53 AM	66433
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	4/1/2022 11:21:53 AM	66433
Surr: DNOP	71.1	51.1-141		%Rec	1	4/1/2022 11:21:53 AM	66433
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2022 8:14:16 AM	66416
Surr: BFB	95.5	37.7-212		%Rec	1	3/30/2022 8:14:16 AM	66416
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2022 8:14:16 AM	66416
Toluene	ND	0.049		mg/Kg	1	3/30/2022 8:14:16 AM	66416
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2022 8:14:16 AM	66416
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2022 8:14:16 AM	66416
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	3/30/2022 8:14:16 AM	66416

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

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

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

WO#: 2203D63

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

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

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

Sample ID: MB-66532	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66532	RunNo: 86885								
Prep Date: 3/31/2022	Analysis Date: 3/31/2022	SeqNo: 3070545	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66532	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66532	RunNo: 86885								
Prep Date: 3/31/2022	Analysis Date: 3/31/2022	SeqNo: 3070546	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203D63

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66433	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66433			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066789		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	68.9	135			
Surr: DNOP	3.8		5.000		75.1	51.1	141			

Sample ID: MB-66433	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66433			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066793		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	9.0		10.00		90.2	51.1	141			

Qualifiers:

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

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

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

WO#: 2203D63

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-66416	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066214	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		97.0	37.7	212			

Sample ID: lcs-66416	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066215	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	2100		1000		209	37.7	212			

Qualifiers:

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

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

WO#: 2203D63

06-Apr-22

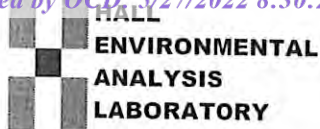
Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-66416	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066262	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	0.98		1.000		98.0	70	130			

Sample ID: LCS-66416	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66416	RunNo: 86824								
Prep Date: 3/25/2022	Analysis Date: 3/29/2022	SeqNo: 3066263	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203D63

RcptNo: 1

Received By: Cheyenne Cason

3/25/2022 7:23:00 AM

Completed By: Sean Livingston

3/25/2022 8:35:58 AM

Reviewed By: TMC

3/25/22

Chain of Custody

1. Is Chain of Custody complete?

Yes ☒No ☐Not Present ☐

2. How was the sample delivered?

CourierLog In

3. Was an attempt made to cool the samples?

Yes ☒No ☐NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ?Yes ☒No ☐NA ☐

5. Sample(s) in proper container(s)?

Yes ☒No ☐

6. Sufficient sample volume for indicated test(s)?

Yes ☒No ☐

7. Are samples (except VOA and ONG) properly preserved?

Yes ☒No ☐

8. Was preservative added to bottles?

Yes ☐No ☒NA ☐9. Received at least 1 vial with headspace $<1/4''$ for AQ VOA?Yes ☐No ☐NA ☒

10. Were any sample containers received broken?

Yes ☐No ☒

11. Does paperwork match bottle labels?

Yes ☒No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody?

Yes ☒No ☐

13. Is it clear what analyses were requested?

Yes ☒No ☐

14. Were all holding times able to be met?

Yes ☒No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: JRL 3/25/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?

Yes ☐No ☐NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

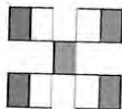
17. Cooler Information

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

Chain-of-Custody Record				Turn-Around Time:		
Client: GHD				<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush 5 Day		
Mailing Address:				Project Name:		
2135 S. Loop 250 W. Midland, TX 79703				Grand AW Battery		
Phone #: (432) 686-0086				Project #:		
email or Fax#: Becky.Haskell@ghd.com				11228976		
QA/QC Package:				Project Manager:		
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				Becky Haskell		
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other _____				Tom Larson		
<input type="checkbox"/> EDD (Type) _____				Sampler: Heath Boyd On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
				# of Coolers: 3 2.9-0-2.9 Cooler Temp (including CF): 1.6-0-1.6		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3/23/22	1245	S	BH-16	4oz Jar/1	N/A	2.8-0-2.8 2203D6.3
	1310		BH-18			001
	1415		BH-20			002
	1420		BH-21			003
	1425	X	BH-22	X	X	004
						005
Relinquished by:			Via:		Date Time	
Date: 3/23/22 Time: 1700			[Signature]		3/24/22 1700	
Relinquished by:			Via:		Date Time	
Date: 3/24/22 Time: 1900			[Signature]		3/24/22 1700	

If necessary, samples submitted to Hall Environmental may be

..... shall 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

[illegible]

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

Direct Bill to EOG Chase Settle



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

April 06, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203E30

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 24 sample(s) on 3/26/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-23

Project: Gerard AW Battery

Collection Date: 3/24/2022 11:00:00 AM

Lab ID: 2203E30-001

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	6400	300		mg/Kg	100	4/4/2022 1:38:50 PM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1900	100		mg/Kg	10	3/31/2022 4:32:31 PM	66503
Motor Oil Range Organics (MRO)	830	500		mg/Kg	10	3/31/2022 4:32:31 PM	66503
Surr: DNOP	0	51.1-141	S	%Rec	10	3/31/2022 4:32:31 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	140	25		mg/Kg	5	3/31/2022 4:43:00 PM	66469
Surr: BFB	260	37.7-212	S	%Rec	5	3/31/2022 4:43:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 4:43:00 PM	66469
Toluene	ND	0.25		mg/Kg	5	3/31/2022 4:43:00 PM	66469
Ethylbenzene	2.4	0.25		mg/Kg	5	3/31/2022 4:43:00 PM	66469
Xylenes, Total	1.7	0.50		mg/Kg	5	3/31/2022 4:43:00 PM	66469
Surr: 4-Bromofluorobenzene	140	70-130	S	%Rec	5	3/31/2022 4:43:00 PM	66469

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-24

Project: Gerard AW Battery

Collection Date: 3/24/2022 11:05:00 AM

Lab ID: 2203E30-002

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	7900	300		mg/Kg	100	4/4/2022 1:51:14 PM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	660	9.4		mg/Kg	1	3/31/2022 4:43:23 PM	66503
Motor Oil Range Organics (MRO)	240	47		mg/Kg	1	3/31/2022 4:43:23 PM	66503
Surr: DNOP	134	51.1-141		%Rec	1	3/31/2022 4:43:23 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/31/2022 5:03:00 PM	66469
Surr: BFB	128	37.7-212		%Rec	5	3/31/2022 5:03:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 5:03:00 PM	66469
Toluene	ND	0.25		mg/Kg	5	3/31/2022 5:03:00 PM	66469
Ethylbenzene	ND	0.25		mg/Kg	5	3/31/2022 5:03:00 PM	66469
Xylenes, Total	ND	0.50		mg/Kg	5	3/31/2022 5:03:00 PM	66469
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	5	3/31/2022 5:03:00 PM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-25

Project: Gerard AW Battery

Collection Date: 3/24/2022 11:10:00 AM

Lab ID: 2203E30-003

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	4600	150		mg/Kg	50	4/4/2022 2:03:39 PM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	69	9.6		mg/Kg	1	3/31/2022 5:05:04 PM	66503
Motor Oil Range Organics (MRO)	52	48		mg/Kg	1	3/31/2022 5:05:04 PM	66503
Surr: DNOP	117	51.1-141		%Rec	1	3/31/2022 5:05:04 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2022 5:23:00 PM	66469
Surr: BFB	103	37.7-212		%Rec	1	3/31/2022 5:23:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/31/2022 5:23:00 PM	66469
Toluene	ND	0.050		mg/Kg	1	3/31/2022 5:23:00 PM	66469
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2022 5:23:00 PM	66469
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2022 5:23:00 PM	66469
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	3/31/2022 5:23:00 PM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-26

Project: Gerard AW Battery

Collection Date: 3/24/2022 1:00:00 PM

Lab ID: 2203E30-004

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2400	150		mg/Kg	50	4/4/2022 2:16:03 PM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	150	10		mg/Kg	1	3/31/2022 5:15:53 PM	66503
Motor Oil Range Organics (MRO)	87	50		mg/Kg	1	3/31/2022 5:15:53 PM	66503
Surr: DNOP	122	51.1-141		%Rec	1	3/31/2022 5:15:53 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2022 5:43:00 PM	66469
Surr: BFB	110	37.7-212		%Rec	1	3/31/2022 5:43:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/31/2022 5:43:00 PM	66469
Toluene	ND	0.050		mg/Kg	1	3/31/2022 5:43:00 PM	66469
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2022 5:43:00 PM	66469
Xylenes, Total	ND	0.10		mg/Kg	1	3/31/2022 5:43:00 PM	66469
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	3/31/2022 5:43:00 PM	66469

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-27

Project: Gerard AW Battery

Collection Date: 3/24/2022 1:05:00 PM

Lab ID: 2203E30-005

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1400	61		mg/Kg	20	4/2/2022 12:23:38 AM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	250	9.8		mg/Kg	1	3/31/2022 5:26:44 PM	66503
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	3/31/2022 5:26:44 PM	66503
Surr: DNOP	103	51.1-141		%Rec	1	3/31/2022 5:26:44 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2022 6:02:00 PM	66469
Surr: BFB	123	37.7-212		%Rec	1	3/31/2022 6:02:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/31/2022 6:02:00 PM	66469
Toluene	ND	0.050		mg/Kg	1	3/31/2022 6:02:00 PM	66469
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2022 6:02:00 PM	66469
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2022 6:02:00 PM	66469
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	3/31/2022 6:02:00 PM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-28

Project: Gerard AW Battery

Collection Date: 3/24/2022 1:10:00 PM

Lab ID: 2203E30-006

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2900	150		mg/Kg	50	4/4/2022 2:53:17 PM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1200	96		mg/Kg	10	4/1/2022 4:18:39 PM	66503
Motor Oil Range Organics (MRO)	570	480		mg/Kg	10	4/1/2022 4:18:39 PM	66503
Surr: DNOP	0	51.1-141	S	%Rec	10	4/1/2022 4:18:39 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	30	25		mg/Kg	5	3/31/2022 7:22:00 PM	66469
Surr: BFB	182	37.7-212		%Rec	5	3/31/2022 7:22:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 7:22:00 PM	66469
Toluene	ND	0.25		mg/Kg	5	3/31/2022 7:22:00 PM	66469
Ethylbenzene	0.42	0.25		mg/Kg	5	3/31/2022 7:22:00 PM	66469
Xylenes, Total	ND	0.49		mg/Kg	5	3/31/2022 7:22:00 PM	66469
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	3/31/2022 7:22:00 PM	66469

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-29

Project: Gerard AW Battery

Collection Date: 3/24/2022 1:15:00 PM

Lab ID: 2203E30-007

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	4400	150		mg/Kg	50	4/4/2022 3:05:41 PM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1900	97		mg/Kg	10	4/1/2022 3:35:31 PM	66503
Motor Oil Range Organics (MRO)	890	490		mg/Kg	10	4/1/2022 3:35:31 PM	66503
Surr: DNOP	0	51.1-141	S	%Rec	10	4/1/2022 3:35:31 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	35	24		mg/Kg	5	3/31/2022 7:42:00 PM	66469
Surr: BFB	185	37.7-212		%Rec	5	3/31/2022 7:42:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 7:42:00 PM	66469
Toluene	ND	0.24		mg/Kg	5	3/31/2022 7:42:00 PM	66469
Ethylbenzene	0.41	0.24		mg/Kg	5	3/31/2022 7:42:00 PM	66469
Xylenes, Total	0.69	0.49		mg/Kg	5	3/31/2022 7:42:00 PM	66469
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	3/31/2022 7:42:00 PM	66469

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-30

Project: Gerard AW Battery

Collection Date: 3/24/2022 2:00:00 PM

Lab ID: 2203E30-008

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3300	150		mg/Kg	50	4/4/2022 3:18:05 PM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	220	9.8		mg/Kg	1	3/31/2022 6:20:29 PM	66503
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	3/31/2022 6:20:29 PM	66503
Surr: DNOP	112	51.1-141		%Rec	1	3/31/2022 6:20:29 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2022 8:02:00 PM	66469
Surr: BFB	101	37.7-212		%Rec	1	3/31/2022 8:02:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 8:02:00 PM	66469
Toluene	ND	0.048		mg/Kg	1	3/31/2022 8:02:00 PM	66469
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2022 8:02:00 PM	66469
Xylenes, Total	ND	0.096		mg/Kg	1	3/31/2022 8:02:00 PM	66469
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	3/31/2022 8:02:00 PM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-31

Project: Gerard AW Battery

Collection Date: 3/24/2022 2:05:00 PM

Lab ID: 2203E30-009

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2100	150		mg/Kg	50	4/4/2022 3:30:30 PM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1400	93		mg/Kg	10	3/31/2022 6:41:56 PM	66503
Motor Oil Range Organics (MRO)	730	460		mg/Kg	10	3/31/2022 6:41:56 PM	66503
Surr: DNOP	0	51.1-141	S	%Rec	10	3/31/2022 6:41:56 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	31	4.8		mg/Kg	1	3/31/2022 8:22:00 PM	66469
Surr: BFB	145	37.7-212		%Rec	1	3/31/2022 8:22:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 8:22:00 PM	66469
Toluene	ND	0.048		mg/Kg	1	3/31/2022 8:22:00 PM	66469
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2022 8:22:00 PM	66469
Xylenes, Total	0.13	0.097		mg/Kg	1	3/31/2022 8:22:00 PM	66469
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	3/31/2022 8:22:00 PM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Ramp-3

Project: Gerard AW Battery

Collection Date: 3/24/2022 1:20:00 PM

Lab ID: 2203E30-010

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	60		mg/Kg	20	4/2/2022 1:25:40 AM	66583
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	560	49		mg/Kg	5	4/1/2022 5:01:22 PM	66503
Motor Oil Range Organics (MRO)	370	240		mg/Kg	5	4/1/2022 5:01:22 PM	66503
Surr: DNOP	89.8	51.1-141		%Rec	5	4/1/2022 5:01:22 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	12	4.8		mg/Kg	1	3/31/2022 8:43:00 PM	66469
Surr: BFB	230	37.7-212	S	%Rec	1	3/31/2022 8:43:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 8:43:00 PM	66469
Toluene	ND	0.048		mg/Kg	1	3/31/2022 8:43:00 PM	66469
Ethylbenzene	0.060	0.048		mg/Kg	1	3/31/2022 8:43:00 PM	66469
Xylenes, Total	ND	0.096		mg/Kg	1	3/31/2022 8:43:00 PM	66469
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/31/2022 8:43:00 PM	66469

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Ramp-4

Project: Gerard AW Battery

Collection Date: 3/24/2022 1:25:00 PM

Lab ID: 2203E30-011

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3600	150		mg/Kg	50	4/4/2022 3:42:54 PM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1500	99		mg/Kg	10	3/31/2022 7:03:28 PM	66503
Motor Oil Range Organics (MRO)	710	500		mg/Kg	10	3/31/2022 7:03:28 PM	66503
Surr: DNOP	0	51.1-141	S	%Rec	10	3/31/2022 7:03:28 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	95	25		mg/Kg	5	3/31/2022 9:03:00 PM	66469
Surr: BFB	297	37.7-212	S	%Rec	5	3/31/2022 9:03:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 9:03:00 PM	66469
Toluene	ND	0.25		mg/Kg	5	3/31/2022 9:03:00 PM	66469
Ethylbenzene	1.7	0.25		mg/Kg	5	3/31/2022 9:03:00 PM	66469
Xylenes, Total	2.5	0.50		mg/Kg	5	3/31/2022 9:03:00 PM	66469
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	5	3/31/2022 9:03:00 PM	66469

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-4A

Project: Gerard AW Battery

Collection Date: 3/25/2022 10:50:00 AM

Lab ID: 2203E30-012

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	100	60		mg/Kg	20	4/2/2022 2:40:08 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	420	200		mg/Kg	20	3/31/2022 7:14:12 PM	66503
Motor Oil Range Organics (MRO)	1100	990		mg/Kg	20	3/31/2022 7:14:12 PM	66503
Surr: DNOP	0	51.1-141	S	%Rec	20	3/31/2022 7:14:12 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2022 9:23:00 PM	66469
Surr: BFB	98.2	37.7-212		%Rec	1	3/31/2022 9:23:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/31/2022 9:23:00 PM	66469
Toluene	ND	0.050		mg/Kg	1	3/31/2022 9:23:00 PM	66469
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2022 9:23:00 PM	66469
Xylenes, Total	ND	0.10		mg/Kg	1	3/31/2022 9:23:00 PM	66469
Surr: 4-Bromofluorobenzene	77.7	70-130		%Rec	1	3/31/2022 9:23:00 PM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-12

Project: Gerard AW Battery

Collection Date: 3/25/2022 10:55:00 AM

Lab ID: 2203E30-013

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	66	60		mg/Kg	20	4/2/2022 2:52:32 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/31/2022 7:24:56 PM	66503
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/31/2022 7:24:56 PM	66503
Surr: DNOP	74.0	51.1-141		%Rec	1	3/31/2022 7:24:56 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2022 9:43:00 PM	66469
Surr: BFB	92.8	37.7-212		%Rec	1	3/31/2022 9:43:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/31/2022 9:43:00 PM	66469
Toluene	ND	0.050		mg/Kg	1	3/31/2022 9:43:00 PM	66469
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2022 9:43:00 PM	66469
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2022 9:43:00 PM	66469
Surr: 4-Bromofluorobenzene	77.2	70-130		%Rec	1	3/31/2022 9:43:00 PM	66469

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-13

Project: Gerard AW Battery

Collection Date: 3/25/2022 11:00:00 AM

Lab ID: 2203E30-014

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	4/2/2022 3:04:57 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/31/2022 7:35:38 PM	66503
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/31/2022 7:35:38 PM	66503
Surr: DNOP	56.7	51.1-141		%Rec	1	3/31/2022 7:35:38 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2022 10:03:00 PM	66469
Surr: BFB	94.4	37.7-212		%Rec	1	3/31/2022 10:03:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/31/2022 10:03:00 PM	66469
Toluene	ND	0.049		mg/Kg	1	3/31/2022 10:03:00 PM	66469
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2022 10:03:00 PM	66469
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2022 10:03:00 PM	66469
Surr: 4-Bromofluorobenzene	76.8	70-130		%Rec	1	3/31/2022 10:03:00 PM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-14

Project: Gerard AW Battery

Collection Date: 3/25/2022 11:05:00 AM

Lab ID: 2203E30-015

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	220	60		mg/Kg	20	4/2/2022 3:17:21 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/31/2022 7:46:20 PM	66503
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/31/2022 7:46:20 PM	66503
Surr: DNOP	80.3	51.1-141		%Rec	1	3/31/2022 7:46:20 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2022 10:23:00 PM	66469
Surr: BFB	95.1	37.7-212		%Rec	1	3/31/2022 10:23:00 PM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/31/2022 10:23:00 PM	66469
Toluene	ND	0.050		mg/Kg	1	3/31/2022 10:23:00 PM	66469
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2022 10:23:00 PM	66469
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2022 10:23:00 PM	66469
Surr: 4-Bromofluorobenzene	77.6	70-130		%Rec	1	3/31/2022 10:23:00 PM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-32

Project: Gerard AW Battery

Collection Date: 3/25/2022 11:55:00 AM

Lab ID: 2203E30-016

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	4/2/2022 3:29:45 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	140	50		mg/Kg	5	4/1/2022 5:22:42 PM	66503
Motor Oil Range Organics (MRO)	280	250		mg/Kg	5	4/1/2022 5:22:42 PM	66503
Surr: DNOP	77.6	51.1-141		%Rec	5	4/1/2022 5:22:42 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/1/2022 12:24:00 AM	66469
Surr: BFB	97.6	37.7-212		%Rec	1	4/1/2022 12:24:00 AM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/1/2022 12:24:00 AM	66469
Toluene	ND	0.050		mg/Kg	1	4/1/2022 12:24:00 AM	66469
Ethylbenzene	ND	0.050		mg/Kg	1	4/1/2022 12:24:00 AM	66469
Xylenes, Total	ND	0.099		mg/Kg	1	4/1/2022 12:24:00 AM	66469
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	4/1/2022 12:24:00 AM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-33

Project: Gerard AW Battery

Collection Date: 3/25/2022 12:00:00 PM

Lab ID: 2203E30-017

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	4/2/2022 3:42:09 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/31/2022 8:18:18 PM	66503
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/31/2022 8:18:18 PM	66503
Surr: DNOP	86.2	51.1-141		%Rec	1	3/31/2022 8:18:18 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/1/2022 12:44:00 AM	66469
Surr: BFB	96.7	37.7-212		%Rec	1	4/1/2022 12:44:00 AM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/1/2022 12:44:00 AM	66469
Toluene	ND	0.050		mg/Kg	1	4/1/2022 12:44:00 AM	66469
Ethylbenzene	ND	0.050		mg/Kg	1	4/1/2022 12:44:00 AM	66469
Xylenes, Total	ND	0.10		mg/Kg	1	4/1/2022 12:44:00 AM	66469
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	4/1/2022 12:44:00 AM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-34

Project: Gerard AW Battery

Collection Date: 3/25/2022 12:05:00 PM

Lab ID: 2203E30-018

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1600	60		mg/Kg	20	4/2/2022 3:54:33 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	32	9.6		mg/Kg	1	4/1/2022 3:46:12 PM	66503
Motor Oil Range Organics (MRO)	86	48		mg/Kg	1	4/1/2022 3:46:12 PM	66503
Surr: DNOP	87.5	51.1-141		%Rec	1	4/1/2022 3:46:12 PM	66503
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2022 1:04:00 AM	66469
Surr: BFB	91.4	37.7-212		%Rec	1	4/1/2022 1:04:00 AM	66469
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/1/2022 1:04:00 AM	66469
Toluene	ND	0.049		mg/Kg	1	4/1/2022 1:04:00 AM	66469
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2022 1:04:00 AM	66469
Xylenes, Total	ND	0.098		mg/Kg	1	4/1/2022 1:04:00 AM	66469
Surr: 4-Bromofluorobenzene	77.7	70-130		%Rec	1	4/1/2022 1:04:00 AM	66469

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-35

Project: Gerard AW Battery

Collection Date: 3/25/2022 12:10:00 PM

Lab ID: 2203E30-019

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	60		mg/Kg	20	4/2/2022 4:31:45 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	450	48		mg/Kg	5	4/1/2022 5:44:02 PM	66511
Motor Oil Range Organics (MRO)	380	240		mg/Kg	5	4/1/2022 5:44:02 PM	66511
Surr: DNOP	87.6	51.1-141		%Rec	5	4/1/2022 5:44:02 PM	66511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/1/2022 1:24:00 AM	66482
Surr: BFB	91.1	37.7-212		%Rec	1	4/1/2022 1:24:00 AM	66482
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/1/2022 1:24:00 AM	66482
Toluene	ND	0.050		mg/Kg	1	4/1/2022 1:24:00 AM	66482
Ethylbenzene	ND	0.050		mg/Kg	1	4/1/2022 1:24:00 AM	66482
Xylenes, Total	ND	0.10		mg/Kg	1	4/1/2022 1:24:00 AM	66482
Surr: 4-Bromofluorobenzene	77.2	70-130		%Rec	1	4/1/2022 1:24:00 AM	66482

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-36

Project: Gerard AW Battery

Collection Date: 3/25/2022 12:15:00 PM

Lab ID: 2203E30-020

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3800	150		mg/Kg	50	4/4/2022 3:55:19 PM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	640	48		mg/Kg	5	4/1/2022 6:26:48 PM	66511
Motor Oil Range Organics (MRO)	430	240		mg/Kg	5	4/1/2022 6:26:48 PM	66511
Surr: DNOP	79.9	51.1-141		%Rec	5	4/1/2022 6:26:48 PM	66511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/1/2022 2:24:00 AM	66482
Surr: BFB	97.7	37.7-212		%Rec	1	4/1/2022 2:24:00 AM	66482
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/1/2022 2:24:00 AM	66482
Toluene	ND	0.050		mg/Kg	1	4/1/2022 2:24:00 AM	66482
Ethylbenzene	ND	0.050		mg/Kg	1	4/1/2022 2:24:00 AM	66482
Xylenes, Total	ND	0.10		mg/Kg	1	4/1/2022 2:24:00 AM	66482
Surr: 4-Bromofluorobenzene	77.0	70-130		%Rec	1	4/1/2022 2:24:00 AM	66482

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

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

Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-37

Project: Gerard AW Battery

Collection Date: 3/25/2022 12:20:00 PM

Lab ID: 2203E30-021

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	4400	150		mg/Kg	50	4/4/2022 4:07:43 PM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	440	50		mg/Kg	5	4/1/2022 6:48:09 PM	66511
Motor Oil Range Organics (MRO)	290	250		mg/Kg	5	4/1/2022 6:48:09 PM	66511
Surr: DNOP	91.4	51.1-141		%Rec	5	4/1/2022 6:48:09 PM	66511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2022 3:24:00 AM	66482
Surr: BFB	131	37.7-212		%Rec	1	4/1/2022 3:24:00 AM	66482
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/1/2022 3:24:00 AM	66482
Toluene	ND	0.049		mg/Kg	1	4/1/2022 3:24:00 AM	66482
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2022 3:24:00 AM	66482
Xylenes, Total	ND	0.097		mg/Kg	1	4/1/2022 3:24:00 AM	66482
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	4/1/2022 3:24:00 AM	66482

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-38

Project: Gerard AW Battery

Collection Date: 3/25/2022 12:45:00 PM

Lab ID: 2203E30-022

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1000	60		mg/Kg	20	4/2/2022 5:08:59 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/1/2022 12:32:38 AM	66511
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/1/2022 12:32:38 AM	66511
Surr: DNOP	93.0	51.1-141		%Rec	1	4/1/2022 12:32:38 AM	66511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2022 3:44:00 AM	66482
Surr: BFB	92.1	37.7-212		%Rec	1	4/1/2022 3:44:00 AM	66482
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/1/2022 3:44:00 AM	66482
Toluene	ND	0.049		mg/Kg	1	4/1/2022 3:44:00 AM	66482
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2022 3:44:00 AM	66482
Xylenes, Total	ND	0.099		mg/Kg	1	4/1/2022 3:44:00 AM	66482
Surr: 4-Bromofluorobenzene	76.4	70-130		%Rec	1	4/1/2022 3:44:00 AM	66482

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-39

Project: Gerard AW Battery

Collection Date: 3/25/2022 12:50:00 PM

Lab ID: 2203E30-023

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	60		mg/Kg	20	4/2/2022 5:21:23 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1100	95		mg/Kg	10	4/1/2022 4:40:00 PM	66511
Motor Oil Range Organics (MRO)	640	480		mg/Kg	10	4/1/2022 4:40:00 PM	66511
Surr: DNOP	0	51.1-141	S	%Rec	10	4/1/2022 4:40:00 PM	66511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	22	4.8		mg/Kg	1	4/1/2022 4:04:00 AM	66482
Surr: BFB	183	37.7-212		%Rec	1	4/1/2022 4:04:00 AM	66482
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/1/2022 4:04:00 AM	66482
Toluene	ND	0.048		mg/Kg	1	4/1/2022 4:04:00 AM	66482
Ethylbenzene	0.16	0.048		mg/Kg	1	4/1/2022 4:04:00 AM	66482
Xylenes, Total	0.36	0.096		mg/Kg	1	4/1/2022 4:04:00 AM	66482
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	4/1/2022 4:04:00 AM	66482

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

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

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Analytical Report

Lab Order 2203E30

Date Reported: 4/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-40

Project: Gerard AW Battery

Collection Date: 3/25/2022 12:55:00 PM

Lab ID: 2203E30-024

Matrix: SOIL

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1000	60		mg/Kg	20	4/2/2022 5:58:35 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	40	9.9		mg/Kg	1	3/31/2022 11:39:45 PM	66511
Motor Oil Range Organics (MRO)	59	50		mg/Kg	1	3/31/2022 11:39:45 PM	66511
Surr: DNOP	77.0	51.1-141		%Rec	1	3/31/2022 11:39:45 PM	66511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/1/2022 4:24:00 AM	66482
Surr: BFB	100	37.7-212		%Rec	1	4/1/2022 4:24:00 AM	66482
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/1/2022 4:24:00 AM	66482
Toluene	ND	0.050		mg/Kg	1	4/1/2022 4:24:00 AM	66482
Ethylbenzene	ND	0.050		mg/Kg	1	4/1/2022 4:24:00 AM	66482
Xylenes, Total	ND	0.10		mg/Kg	1	4/1/2022 4:24:00 AM	66482
Surr: 4-Bromofluorobenzene	75.4	70-130		%Rec	1	4/1/2022 4:24:00 AM	66482

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

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

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

WO#: 2203E30

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66583	SampType: lcs			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 66583			RunNo: 86923						
Prep Date: 4/1/2022	Analysis Date: 4/1/2022			SeqNo: 3072164		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Sample ID: MB-66583	SampType: mblk			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 66583			RunNo: 86923						
Prep Date: 4/1/2022	Analysis Date: 4/1/2022			SeqNo: 3072165		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: MB-66584	SampType: mblk			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 66584			RunNo: 86923						
Prep Date: 4/1/2022	Analysis Date: 4/2/2022			SeqNo: 3072196		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66584	SampType: lcs			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 66584			RunNo: 86923						
Prep Date: 4/1/2022	Analysis Date: 4/2/2022			SeqNo: 3072197		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Qualifiers:

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

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

WO#: 2203E30

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66503	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66503	RunNo: 86887								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3069714 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.7	68.9	135			
Surr: DNOP	4.0		5.000		79.8	51.1	141			

Sample ID: LCS-66511	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66511	RunNo: 86887								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3069716 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	88.0	68.9	135			
Surr: DNOP	3.8		5.000		75.7	51.1	141			

Sample ID: MB-66503	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66503	RunNo: 86887								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3069717 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.4	51.1	141			

Sample ID: MB-66511	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66511	RunNo: 86887								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3069719 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.4	51.1	141			

Sample ID: 2203E30-019AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-35	Batch ID: 66511	RunNo: 86902								
Prep Date: 3/30/2022	Analysis Date: 4/1/2022	SeqNo: 3071863 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	880	49	49.46	453.1	866	36.1	154			S
Surr: DNOP	8.3		4.946		168	51.1	141			S

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E30
06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2203E30-019AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-35		Batch ID: 66511		RunNo: 86902						
Prep Date: 3/30/2022		Analysis Date: 4/1/2022		SeqNo: 3071864		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	400	49	48.69	453.1	-106	36.1	154	74.9	33.9	RS
Surr: DNOP	2.0		4.869		41.2	51.1	141	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 interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2203E30

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: lcs-66469	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66469			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 3/31/2022			SeqNo: 3069854		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	72.3	137			
Surr: BFB	2300		1000		228	37.7	212			S

Sample ID: mb-66469	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66469			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 3/31/2022			SeqNo: 3069855		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	37.7	212			

Sample ID: lcs-66482	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66482			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 3/31/2022			SeqNo: 3069888		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2100		1000		211	37.7	212			

Sample ID: mb-66482	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66482			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 4/1/2022			SeqNo: 3069889		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			

Sample ID: 2203e30-019ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-35	Batch ID: 66482			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 4/1/2022			SeqNo: 3069894		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.44	0	111	70	130			
Surr: BFB	2200		977.5		222	37.7	212			S

Sample ID: 2203e30-019amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-35	Batch ID: 66482			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 4/1/2022			SeqNo: 3069895		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E30
06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2203e30-019amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-35		Batch ID: 66482		RunNo: 86896						
Prep Date: 3/29/2022		Analysis Date: 4/1/2022		SeqNo: 3069895		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.75	0	113	70	130	2.74	20	
Surr: BFB	2600		990.1		265	37.7	212	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 interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2203E30

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: lcs-66469	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66469			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 3/31/2022			SeqNo: 3069902		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.7	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.6	70	130			

Sample ID: mb-66469	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66469			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 3/31/2022			SeqNo: 3069903		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

Sample ID: lcs-66482	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66482			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 3/31/2022			SeqNo: 3069936		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	82.2	80	120			
Toluene	0.83	0.050	1.000	0	82.9	80	120			
Ethylbenzene	0.82	0.050	1.000	0	82.3	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.5	80	120			
Surr: 4-Bromofluorobenzene	0.80		1.000		80.3	70	130			

Sample ID: mb-66482	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66482			RunNo: 86896						
Prep Date: 3/29/2022	Analysis Date: 4/1/2022			SeqNo: 3069937		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		81.4	70	130			

Qualifiers:

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

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

WO#: 2203E30

06-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2203e30-020ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-36	Batch ID: 66482		RunNo: 86896							
Prep Date: 3/29/2022	Analysis Date: 4/1/2022		SeqNo: 3069943		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9862	0	89.2	68.8	120			
Toluene	0.89	0.049	0.9862	0	90.2	73.6	124			
Ethylbenzene	0.90	0.049	0.9862	0	91.0	72.7	129			
Xylenes, Total	2.7	0.099	2.959	0	90.1	75.7	126			
Surr: 4-Bromofluorobenzene	0.81		0.9862		81.8	70	130			

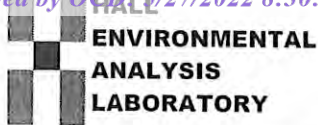
Sample ID: 2203e30-020amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: BH-36		Batch ID: 66482		RunNo: 86896						
Prep Date: 3/29/2022		Analysis Date: 4/1/2022		SeqNo: 3069944		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9990	0	83.7	68.8	120	5.07	20	
Toluene	0.85	0.050	0.9990	0	85.2	73.6	124	4.48	20	
Ethylbenzene	0.85	0.050	0.9990	0	84.9	72.7	129	5.59	20	
Xylenes, Total	2.5	0.10	2.997	0	84.0	75.7	126	5.72	20	
Surr: 4-Bromofluorobenzene	0.78		0.9990		77.9	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 interference

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

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Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203E30

RcptNo: 1

Received By: Tracy Casarrubias 3/26/2022 1:50:00 PM

Completed By: Tracy Casarrubias 3/26/2022 2:20:33 PM

Reviewed By: KPG 3/26/22
3/28/22Chain 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: JR 3/28/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good	Yes			
2	5.8	Good	Yes			

Chain-of-Custody Record

Client: GHD

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard☒ Rush

Project Name:

Grand Aw Battery

Project #:

11228976

Project Manager:

Becky Haskell

Tom Larson

Sampler: Heath Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 5.1 - 5.1

HEAL No. 5.1 - 5.1

Container Type and #

4oz Jar / 1

Preservative Type

N/A

Date Time Matrix Sample Name

3/25/22 1050 S SW-4A

1055 SW-12

1100 SW-13

1105 SW-14

1155 BH-32

1200 BH-33

1205 BH-34

1210 BH-35

1215 BH-36

1220 BH-37

1245 BH-38

X 1250 BH-39

Date: 3/25/22

Time: 1600

Date: 3/25/22

Time: 1900

Received by:

Via:

Received by:

Via:

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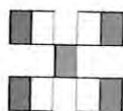
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3/25/22

[illegible]

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



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

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

Direct Bill to EOG Chase Settle



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

April 11, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203F69

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 15 sample(s) on 3/30/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-41

Project: Gerard AW Battery

Collection Date: 3/28/2022 10:35:00 AM

Lab ID: 2203F69-001

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	820	60		mg/Kg	20	4/4/2022 10:45:07 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/1/2022 1:15:23 AM	66507
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2022 1:15:23 AM	66507
Surr: DNOP	84.9	51.1-141		%Rec	1	4/1/2022 1:15:23 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/31/2022 4:48:10 PM	66501
Surr: BFB	96.0	37.7-212		%Rec	1	3/31/2022 4:48:10 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 4:48:10 PM	66501
Toluene	ND	0.047		mg/Kg	1	3/31/2022 4:48:10 PM	66501
Ethylbenzene	ND	0.047		mg/Kg	1	3/31/2022 4:48:10 PM	66501
Xylenes, Total	ND	0.095		mg/Kg	1	3/31/2022 4:48:10 PM	66501
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	3/31/2022 4:48:10 PM	66501

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

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

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Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-42

Project: Gerard AW Battery

Collection Date: 3/28/2022 10:40:00 AM

Lab ID: 2203F69-002

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	4/4/2022 10:57:32 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	58	10		mg/Kg	1	4/1/2022 1:26:11 AM	66507
Motor Oil Range Organics (MRO)	65	50		mg/Kg	1	4/1/2022 1:26:11 AM	66507
Surr: DNOP	80.0	51.1-141		%Rec	1	4/1/2022 1:26:11 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2022 5:11:34 PM	66501
Surr: BFB	96.3	37.7-212		%Rec	1	3/31/2022 5:11:34 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 5:11:34 PM	66501
Toluene	ND	0.048		mg/Kg	1	3/31/2022 5:11:34 PM	66501
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2022 5:11:34 PM	66501
Xylenes, Total	ND	0.097		mg/Kg	1	3/31/2022 5:11:34 PM	66501
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	3/31/2022 5:11:34 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-43

Project: Gerard AW Battery

Collection Date: 3/28/2022 10:45:00 AM

Lab ID: 2203F69-003

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2300	60		mg/Kg	20	4/4/2022 11:09:57 AM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	29	9.9		mg/Kg	1	4/1/2022 1:47:44 AM	66507
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/1/2022 1:47:44 AM	66507
Surr: DNOP	69.8	51.1-141		%Rec	1	4/1/2022 1:47:44 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2022 5:35:30 PM	66501
Surr: BFB	96.3	37.7-212		%Rec	1	3/31/2022 5:35:30 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 5:35:30 PM	66501
Toluene	ND	0.048		mg/Kg	1	3/31/2022 5:35:30 PM	66501
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2022 5:35:30 PM	66501
Xylenes, Total	ND	0.095		mg/Kg	1	3/31/2022 5:35:30 PM	66501
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/31/2022 5:35:30 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-44

Project: Gerard AW Battery

Collection Date: 3/28/2022 10:50:00 AM

Lab ID: 2203F69-004

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2500	150		mg/Kg	50	4/5/2022 8:39:40 PM	66584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	53	9.8		mg/Kg	1	4/1/2022 1:58:29 AM	66507
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2022 1:58:29 AM	66507
Surr: DNOP	78.6	51.1-141		%Rec	1	4/1/2022 1:58:29 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/31/2022 7:12:15 PM	66501
Surr: BFB	100	37.7-212		%Rec	5	3/31/2022 7:12:15 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 7:12:15 PM	66501
Toluene	ND	0.24		mg/Kg	5	3/31/2022 7:12:15 PM	66501
Ethylbenzene	ND	0.24		mg/Kg	5	3/31/2022 7:12:15 PM	66501
Xylenes, Total	ND	0.48		mg/Kg	5	3/31/2022 7:12:15 PM	66501
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	5	3/31/2022 7:12:15 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-45

Project: Gerard AW Battery

Collection Date: 3/28/2022 10:55:00 AM

Lab ID: 2203F69-005

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1800	60		mg/Kg	20	4/5/2022 6:23:14 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	340	9.4		mg/Kg	1	4/1/2022 2:09:14 AM	66507
Motor Oil Range Organics (MRO)	180	47		mg/Kg	1	4/1/2022 2:09:14 AM	66507
Surr: DNOP	89.8	51.1-141		%Rec	1	4/1/2022 2:09:14 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/31/2022 7:36:24 PM	66501
Surr: BFB	107	37.7-212		%Rec	5	3/31/2022 7:36:24 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 7:36:24 PM	66501
Toluene	ND	0.25		mg/Kg	5	3/31/2022 7:36:24 PM	66501
Ethylbenzene	ND	0.25		mg/Kg	5	3/31/2022 7:36:24 PM	66501
Xylenes, Total	ND	0.49		mg/Kg	5	3/31/2022 7:36:24 PM	66501
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	5	3/31/2022 7:36:24 PM	66501

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

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

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Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-46

Project: Gerard AW Battery

Collection Date: 3/28/2022 11:40:00 AM

Lab ID: 2203F69-006

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3100	150		mg/Kg	50	4/6/2022 10:57:04 AM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	270	9.8		mg/Kg	1	4/1/2022 2:30:38 AM	66507
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	4/1/2022 2:30:38 AM	66507
Surr: DNOP	102	51.1-141		%Rec	1	4/1/2022 2:30:38 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/31/2022 8:00:37 PM	66501
Surr: BFB	102	37.7-212		%Rec	5	3/31/2022 8:00:37 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 8:00:37 PM	66501
Toluene	ND	0.24		mg/Kg	5	3/31/2022 8:00:37 PM	66501
Ethylbenzene	ND	0.24		mg/Kg	5	3/31/2022 8:00:37 PM	66501
Xylenes, Total	ND	0.48		mg/Kg	5	3/31/2022 8:00:37 PM	66501
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	3/31/2022 8:00:37 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-47

Project: Gerard AW Battery

Collection Date: 3/28/2022 11:45:00 AM

Lab ID: 2203F69-007

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4600	150		mg/Kg	50	4/6/2022 11:09:29 AM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	150	9.6		mg/Kg	1	4/1/2022 2:51:44 AM	66507
Motor Oil Range Organics (MRO)	93	48		mg/Kg	1	4/1/2022 2:51:44 AM	66507
Surr: DNOP	107	51.1-141		%Rec	1	4/1/2022 2:51:44 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/31/2022 8:24:48 PM	66501
Surr: BFB	107	37.7-212		%Rec	5	3/31/2022 8:24:48 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 8:24:48 PM	66501
Toluene	ND	0.24		mg/Kg	5	3/31/2022 8:24:48 PM	66501
Ethylbenzene	ND	0.24		mg/Kg	5	3/31/2022 8:24:48 PM	66501
Xylenes, Total	ND	0.47		mg/Kg	5	3/31/2022 8:24:48 PM	66501
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	5	3/31/2022 8:24:48 PM	66501

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

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

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Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-48

Project: Gerard AW Battery

Collection Date: 3/28/2022 11:50:00 AM

Lab ID: 2203F69-008

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4800	300		mg/Kg	100	4/6/2022 11:46:43 AM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	290	10		mg/Kg	1	4/1/2022 3:02:24 AM	66507
Motor Oil Range Organics (MRO)	160	50		mg/Kg	1	4/1/2022 3:02:24 AM	66507
Surr: DNOP	99.3	51.1-141		%Rec	1	4/1/2022 3:02:24 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/31/2022 8:48:59 PM	66501
Surr: BFB	103	37.7-212		%Rec	5	3/31/2022 8:48:59 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 8:48:59 PM	66501
Toluene	ND	0.25		mg/Kg	5	3/31/2022 8:48:59 PM	66501
Ethylbenzene	ND	0.25		mg/Kg	5	3/31/2022 8:48:59 PM	66501
Xylenes, Total	ND	0.49		mg/Kg	5	3/31/2022 8:48:59 PM	66501
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	3/31/2022 8:48:59 PM	66501

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

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

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Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-49

Project: Gerard AW Battery

Collection Date: 3/28/2022 11:55:00 AM

Lab ID: 2203F69-009

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3000	150		mg/Kg	50	4/6/2022 11:21:54 AM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	630	10		mg/Kg	1	4/1/2022 3:23:29 AM	66507
Motor Oil Range Organics (MRO)	330	50		mg/Kg	1	4/1/2022 3:23:29 AM	66507
Surr: DNOP	115	51.1-141		%Rec	1	4/1/2022 3:23:29 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/31/2022 9:13:10 PM	66501
Surr: BFB	102	37.7-212		%Rec	5	3/31/2022 9:13:10 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 9:13:10 PM	66501
Toluene	ND	0.25		mg/Kg	5	3/31/2022 9:13:10 PM	66501
Ethylbenzene	ND	0.25		mg/Kg	5	3/31/2022 9:13:10 PM	66501
Xylenes, Total	ND	0.49		mg/Kg	5	3/31/2022 9:13:10 PM	66501
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	3/31/2022 9:13:10 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-50

Project: Gerard AW Battery

Collection Date: 3/28/2022 12:00:00 PM

Lab ID: 2203F69-010

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3500	150		mg/Kg	50	4/6/2022 11:34:19 AM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	710	50		mg/Kg	5	4/1/2022 7:09:34 PM	66507
Motor Oil Range Organics (MRO)	450	250		mg/Kg	5	4/1/2022 7:09:34 PM	66507
Surr: DNOP	88.6	51.1-141		%Rec	5	4/1/2022 7:09:34 PM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/31/2022 9:37:12 PM	66501
Surr: BFB	105	37.7-212		%Rec	5	3/31/2022 9:37:12 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 9:37:12 PM	66501
Toluene	ND	0.25		mg/Kg	5	3/31/2022 9:37:12 PM	66501
Ethylbenzene	ND	0.25		mg/Kg	5	3/31/2022 9:37:12 PM	66501
Xylenes, Total	ND	0.49		mg/Kg	5	3/31/2022 9:37:12 PM	66501
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	5	3/31/2022 9:37:12 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-51

Project: Gerard AW Battery

Collection Date: 3/28/2022 1:10:00 PM

Lab ID: 2203F69-011

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4600	300		mg/Kg	100	4/6/2022 11:59:08 AM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	68	9.8		mg/Kg	1	4/1/2022 8:36:04 AM	66507
Motor Oil Range Organics (MRO)	50	49		mg/Kg	1	4/1/2022 8:36:04 AM	66507
Surr: DNOP	88.9	51.1-141		%Rec	1	4/1/2022 8:36:04 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2022 10:01:22 PM	66501
Surr: BFB	103	37.7-212		%Rec	1	3/31/2022 10:01:22 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 10:01:22 PM	66501
Toluene	ND	0.048		mg/Kg	1	3/31/2022 10:01:22 PM	66501
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2022 10:01:22 PM	66501
Xylenes, Total	ND	0.096		mg/Kg	1	3/31/2022 10:01:22 PM	66501
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	3/31/2022 10:01:22 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-52

Project: Gerard AW Battery

Collection Date: 3/28/2022 1:15:00 PM

Lab ID: 2203F69-012

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4100	150		mg/Kg	50	4/6/2022 5:09:23 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	100	10		mg/Kg	1	4/1/2022 8:46:37 AM	66507
Motor Oil Range Organics (MRO)	73	50		mg/Kg	1	4/1/2022 8:46:37 AM	66507
Surr: DNOP	123	51.1-141		%Rec	1	4/1/2022 8:46:37 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/31/2022 10:25:30 PM	66501
Surr: BFB	103	37.7-212		%Rec	5	3/31/2022 10:25:30 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 10:25:30 PM	66501
Toluene	ND	0.25		mg/Kg	5	3/31/2022 10:25:30 PM	66501
Ethylbenzene	ND	0.25		mg/Kg	5	3/31/2022 10:25:30 PM	66501
Xylenes, Total	ND	0.49		mg/Kg	5	3/31/2022 10:25:30 PM	66501
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	3/31/2022 10:25:30 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-53

Project: Gerard AW Battery

Collection Date: 3/28/2022 1:20:00 PM

Lab ID: 2203F69-013

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2700	150		mg/Kg	50	4/6/2022 5:21:48 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	260	49		mg/Kg	5	4/1/2022 7:31:02 PM	66507
Motor Oil Range Organics (MRO)	ND	250		mg/Kg	5	4/1/2022 7:31:02 PM	66507
Surr: DNOP	77.2	51.1-141		%Rec	5	4/1/2022 7:31:02 PM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	3/31/2022 10:49:31 PM	66501
Surr: BFB	106	37.7-212		%Rec	5	3/31/2022 10:49:31 PM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/31/2022 10:49:31 PM	66501
Toluene	ND	0.23		mg/Kg	5	3/31/2022 10:49:31 PM	66501
Ethylbenzene	ND	0.23		mg/Kg	5	3/31/2022 10:49:31 PM	66501
Xylenes, Total	ND	0.47		mg/Kg	5	3/31/2022 10:49:31 PM	66501
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	3/31/2022 10:49:31 PM	66501

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

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

Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-54

Project: Gerard AW Battery

Collection Date: 3/28/2022 1:25:00 PM

Lab ID: 2203F69-014

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	150		mg/Kg	50	4/6/2022 5:34:12 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	23	9.7		mg/Kg	1	4/1/2022 9:07:53 AM	66507
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/1/2022 9:07:53 AM	66507
Surr: DNOP	108	51.1-141		%Rec	1	4/1/2022 9:07:53 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/1/2022 12:01:30 AM	66501
Surr: BFB	103	37.7-212		%Rec	1	4/1/2022 12:01:30 AM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/1/2022 12:01:30 AM	66501
Toluene	ND	0.048		mg/Kg	1	4/1/2022 12:01:30 AM	66501
Ethylbenzene	ND	0.048		mg/Kg	1	4/1/2022 12:01:30 AM	66501
Xylenes, Total	ND	0.096		mg/Kg	1	4/1/2022 12:01:30 AM	66501
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	4/1/2022 12:01:30 AM	66501

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

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

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Analytical Report

Lab Order 2203F69

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-55

Project: Gerard AW Battery

Collection Date: 3/28/2022 1:30:00 PM

Lab ID: 2203F69-015

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2100	150		mg/Kg	50	4/6/2022 6:11:26 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	35	9.9		mg/Kg	1	4/1/2022 9:18:30 AM	66507
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/1/2022 9:18:30 AM	66507
Surr: DNOP	120	51.1-141		%Rec	1	4/1/2022 9:18:30 AM	66507
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/1/2022 12:25:26 AM	66501
Surr: BFB	102	37.7-212		%Rec	1	4/1/2022 12:25:26 AM	66501
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/1/2022 12:25:26 AM	66501
Toluene	ND	0.048		mg/Kg	1	4/1/2022 12:25:26 AM	66501
Ethylbenzene	ND	0.048		mg/Kg	1	4/1/2022 12:25:26 AM	66501
Xylenes, Total	ND	0.096		mg/Kg	1	4/1/2022 12:25:26 AM	66501
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/1/2022 12:25:26 AM	66501

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

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

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

WO#: 2203F69

11-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66584	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66584	RunNo: 86923								
Prep Date: 4/1/2022	Analysis Date: 4/2/2022	SeqNo: 3072196 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66584	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66584	RunNo: 86923								
Prep Date: 4/1/2022	Analysis Date: 4/2/2022	SeqNo: 3072197 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Sample ID: MB-66637	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66637	RunNo: 86993								
Prep Date: 4/5/2022	Analysis Date: 4/5/2022	SeqNo: 3075207 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66637	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66637	RunNo: 86993								
Prep Date: 4/5/2022	Analysis Date: 4/5/2022	SeqNo: 3075208 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Sample ID: MB-66638	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66638	RunNo: 87038								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077760 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66638	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66638	RunNo: 87038								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077761 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Qualifiers:

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

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

WO#: 2203F69

11-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66507	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66507			RunNo: 86887						
Prep Date: 3/30/2022	Analysis Date: 3/31/2022			SeqNo: 3069715		Units: 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	135			
Surr: DNOP	3.8		5.000		75.1	51.1	141			

Sample ID: MB-66507	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66507			RunNo: 86887						
Prep Date: 3/30/2022	Analysis Date: 3/31/2022			SeqNo: 3069718		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.8	51.1	141			

Qualifiers:

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

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

WO#: 2203F69

11-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: lcs-66501	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66501		RunNo: 86898							
Prep Date: 3/30/2022	Analysis Date: 3/31/2022		SeqNo: 3070030		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2100		1000		212	37.7	212			

Sample ID: mb-66501	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66501		RunNo: 86898							
Prep Date: 3/30/2022	Analysis Date: 3/31/2022		SeqNo: 3070031		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		97.1	37.7	212			

Qualifiers:

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

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

WO#: 2203F69

11-Apr-22

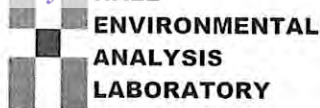
Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-66501	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66501	RunNo: 86898								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3070054	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.90	0.050	1.000	0	90.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-66501	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66501	RunNo: 86898								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3070055	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Qualifiers:

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



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: 2203F69

RcptNo: 1

Received By: Juan Rojas

3/30/2022 9:15:00 AM

Completed By: Sean Livingston

3/30/2022 9:47:45 AM

Reviewed By: JN 3/30/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: TMC 3/30/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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



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

April 12, 2022

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

RE: Gerard AW Battery

OrderNo.: 2203G95

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 23 sample(s) on 3/31/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-2A

Project: Gerard AW Battery

Collection Date: 3/29/2022 8:20:00 AM

Lab ID: 2203G95-001

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	4500	150		mg/Kg	50	4/7/2022 2:47:11 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/4/2022 4:58:07 PM	66587
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2022 4:58:07 PM	66587
Surr: DNOP	84.8	51.1-141		%Rec	1	4/4/2022 4:58:07 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/4/2022 8:12:00 PM	66561
Surr: BFB	101	37.7-212		%Rec	1	4/4/2022 8:12:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/4/2022 8:12:00 PM	66561
Toluene	ND	0.047		mg/Kg	1	4/4/2022 8:12:00 PM	66561
Ethylbenzene	ND	0.047		mg/Kg	1	4/4/2022 8:12:00 PM	66561
Xylenes, Total	ND	0.094		mg/Kg	1	4/4/2022 8:12:00 PM	66561
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	4/4/2022 8:12:00 PM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-3A

Project: Gerard AW Battery

Collection Date: 3/29/2022 8:25:00 AM

Lab ID: 2203G95-002

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3200	150		mg/Kg	50	4/7/2022 2:59:35 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/4/2022 5:12:11 PM	66587
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2022 5:12:11 PM	66587
Surr: DNOP	86.5	51.1-141		%Rec	1	4/4/2022 5:12:11 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/4/2022 8:32:00 PM	66561
Surr: BFB	99.4	37.7-212		%Rec	1	4/4/2022 8:32:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/4/2022 8:32:00 PM	66561
Toluene	ND	0.049		mg/Kg	1	4/4/2022 8:32:00 PM	66561
Ethylbenzene	ND	0.049		mg/Kg	1	4/4/2022 8:32:00 PM	66561
Xylenes, Total	ND	0.098		mg/Kg	1	4/4/2022 8:32:00 PM	66561
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	4/4/2022 8:32:00 PM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-6A

Project: Gerard AW Battery

Collection Date: 3/29/2022 8:30:00 AM

Lab ID: 2203G95-003

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1300	61		mg/Kg	20	4/7/2022 3:36:49 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/4/2022 5:26:34 PM	66587
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/4/2022 5:26:34 PM	66587
Surr: DNOP	87.4	51.1-141		%Rec	1	4/4/2022 5:26:34 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/4/2022 8:51:00 PM	66561
Surr: BFB	98.7	37.7-212		%Rec	1	4/4/2022 8:51:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/4/2022 8:51:00 PM	66561
Toluene	ND	0.046		mg/Kg	1	4/4/2022 8:51:00 PM	66561
Ethylbenzene	ND	0.046		mg/Kg	1	4/4/2022 8:51:00 PM	66561
Xylenes, Total	ND	0.092		mg/Kg	1	4/4/2022 8:51:00 PM	66561
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	4/4/2022 8:51:00 PM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-7

Project: Gerard AW Battery

Collection Date: 3/29/2022 8:35:00 AM

Lab ID: 2203G95-004

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5000	150		mg/Kg	50	4/7/2022 3:49:13 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	14	9.7		mg/Kg	1	4/4/2022 5:41:02 PM	66587
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2022 5:41:02 PM	66587
Surr: DNOP	88.6	51.1-141		%Rec	1	4/4/2022 5:41:02 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2022 9:11:00 PM	66561
Surr: BFB	101	37.7-212		%Rec	1	4/4/2022 9:11:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/4/2022 9:11:00 PM	66561
Toluene	ND	0.050		mg/Kg	1	4/4/2022 9:11:00 PM	66561
Ethylbenzene	ND	0.050		mg/Kg	1	4/4/2022 9:11:00 PM	66561
Xylenes, Total	ND	0.099		mg/Kg	1	4/4/2022 9:11:00 PM	66561
Surr: 4-Bromofluorobenzene	79.9	70-130		%Rec	1	4/4/2022 9:11:00 PM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-8

Project: Gerard AW Battery

Collection Date: 3/29/2022 8:40:00 AM

Lab ID: 2203G95-005

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3200	150		mg/Kg	50	4/7/2022 4:01:38 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	950	9.8		mg/Kg	1	4/5/2022 2:31:28 PM	66587
Motor Oil Range Organics (MRO)	380	49		mg/Kg	1	4/5/2022 2:31:28 PM	66587
Surr: DNOP	122	51.1-141		%Rec	1	4/5/2022 2:31:28 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/4/2022 9:31:00 PM	66561
Surr: BFB	106	37.7-212		%Rec	1	4/4/2022 9:31:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/4/2022 9:31:00 PM	66561
Toluene	ND	0.048		mg/Kg	1	4/4/2022 9:31:00 PM	66561
Ethylbenzene	ND	0.048		mg/Kg	1	4/4/2022 9:31:00 PM	66561
Xylenes, Total	ND	0.095		mg/Kg	1	4/4/2022 9:31:00 PM	66561
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	4/4/2022 9:31:00 PM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-9

Project: Gerard AW Battery

Collection Date: 3/29/2022 8:45:00 AM

Lab ID: 2203G95-006

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2300	150		mg/Kg	50	4/7/2022 4:14:02 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	540	9.9		mg/Kg	1	4/5/2022 3:14:00 PM	66587
Motor Oil Range Organics (MRO)	240	49		mg/Kg	1	4/5/2022 3:14:00 PM	66587
Surr: DNOP	104	51.1-141		%Rec	1	4/5/2022 3:14:00 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	4/4/2022 9:50:00 PM	66561
Surr: BFB	123	37.7-212		%Rec	5	4/4/2022 9:50:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.11		mg/Kg	5	4/4/2022 9:50:00 PM	66561
Toluene	ND	0.23		mg/Kg	5	4/4/2022 9:50:00 PM	66561
Ethylbenzene	ND	0.23		mg/Kg	5	4/4/2022 9:50:00 PM	66561
Xylenes, Total	ND	0.46		mg/Kg	5	4/4/2022 9:50:00 PM	66561
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	5	4/4/2022 9:50:00 PM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-10

Project: Gerard AW Battery

Collection Date: 3/29/2022 8:50:00 AM

Lab ID: 2203G95-007

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3800	150		mg/Kg	50	4/7/2022 4:26:26 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3000	93		mg/Kg	10	4/5/2022 3:35:18 PM	66587
Motor Oil Range Organics (MRO)	1300	460		mg/Kg	10	4/5/2022 3:35:18 PM	66587
Surr: DNOP	0	51.1-141	S	%Rec	10	4/5/2022 3:35:18 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	63	23		mg/Kg	5	4/4/2022 10:10:00 PM	66561
Surr: BFB	255	37.7-212	S	%Rec	5	4/4/2022 10:10:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/4/2022 10:10:00 PM	66561
Toluene	ND	0.23		mg/Kg	5	4/4/2022 10:10:00 PM	66561
Ethylbenzene	0.91	0.23		mg/Kg	5	4/4/2022 10:10:00 PM	66561
Xylenes, Total	0.47	0.46		mg/Kg	5	4/4/2022 10:10:00 PM	66561
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	5	4/4/2022 10:10:00 PM	66561

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

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

Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-11

Project: Gerard AW Battery

Collection Date: 3/29/2022 9:35:00 AM

Lab ID: 2203G95-008

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2000	150		mg/Kg	50	4/7/2022 4:38:51 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/5/2022 3:56:35 PM	66587
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/5/2022 3:56:35 PM	66587
Surr: DNOP	102	51.1-141		%Rec	1	4/5/2022 3:56:35 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/4/2022 11:29:00 PM	66561
Surr: BFB	101	37.7-212		%Rec	1	4/4/2022 11:29:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/4/2022 11:29:00 PM	66561
Toluene	ND	0.047		mg/Kg	1	4/4/2022 11:29:00 PM	66561
Ethylbenzene	ND	0.047		mg/Kg	1	4/4/2022 11:29:00 PM	66561
Xylenes, Total	ND	0.095		mg/Kg	1	4/4/2022 11:29:00 PM	66561
Surr: 4-Bromofluorobenzene	81.1	70-130		%Rec	1	4/4/2022 11:29:00 PM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-12

Project: Gerard AW Battery

Collection Date: 3/29/2022 9:40:00 AM

Lab ID: 2203G95-009

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5300	300		mg/Kg	100	4/7/2022 4:51:15 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2200	50		mg/Kg	5	4/5/2022 4:07:13 PM	66587
Motor Oil Range Organics (MRO)	1000	250		mg/Kg	5	4/5/2022 4:07:13 PM	66587
Surr: DNOP	103	51.1-141		%Rec	5	4/5/2022 4:07:13 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	54	25		mg/Kg	5	4/4/2022 11:49:00 PM	66561
Surr: BFB	165	37.7-212		%Rec	5	4/4/2022 11:49:00 PM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/4/2022 11:49:00 PM	66561
Toluene	ND	0.25		mg/Kg	5	4/4/2022 11:49:00 PM	66561
Ethylbenzene	ND	0.25		mg/Kg	5	4/4/2022 11:49:00 PM	66561
Xylenes, Total	ND	0.49		mg/Kg	5	4/4/2022 11:49:00 PM	66561
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	4/4/2022 11:49:00 PM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-13

Project: Gerard AW Battery

Collection Date: 3/29/2022 9:45:00 AM

Lab ID: 2203G95-010

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	6000	300		mg/Kg	100	4/7/2022 5:03:39 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1100	50		mg/Kg	5	4/5/2022 4:49:47 PM	66587
Motor Oil Range Organics (MRO)	550	250		mg/Kg	5	4/5/2022 4:49:47 PM	66587
Surr: DNOP	116	51.1-141		%Rec	5	4/5/2022 4:49:47 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	4/5/2022 12:09:00 AM	66561
Surr: BFB	125	37.7-212		%Rec	5	4/5/2022 12:09:00 AM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.11		mg/Kg	5	4/5/2022 12:09:00 AM	66561
Toluene	ND	0.23		mg/Kg	5	4/5/2022 12:09:00 AM	66561
Ethylbenzene	ND	0.23		mg/Kg	5	4/5/2022 12:09:00 AM	66561
Xylenes, Total	ND	0.46		mg/Kg	5	4/5/2022 12:09:00 AM	66561
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	5	4/5/2022 12:09:00 AM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-14

Project: Gerard AW Battery

Collection Date: 3/29/2022 9:50:00 AM

Lab ID: 2203G95-011

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	6000	300		mg/Kg	100	4/7/2022 5:16:04 PM	66681
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	96	10		mg/Kg	1	4/5/2022 5:11:02 PM	66587
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	4/5/2022 5:11:02 PM	66587
Surr: DNOP	126	51.1-141		%Rec	1	4/5/2022 5:11:02 PM	66587
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 12:28:00 AM	66561
Surr: BFB	95.7	37.7-212		%Rec	1	4/5/2022 12:28:00 AM	66561
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 12:28:00 AM	66561
Toluene	ND	0.049		mg/Kg	1	4/5/2022 12:28:00 AM	66561
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 12:28:00 AM	66561
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2022 12:28:00 AM	66561
Surr: 4-Bromofluorobenzene	77.5	70-130		%Rec	1	4/5/2022 12:28:00 AM	66561

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-15

Project: Gerard AW Battery

Collection Date: 3/29/2022 9:55:00 AM

Lab ID: 2203G95-012

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	7600	300		mg/Kg	100	4/7/2022 11:15:08 AM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.5		mg/Kg	1	4/6/2022 5:55:24 PM	66634
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/6/2022 5:55:24 PM	66634
Surr: DNOP	85.9	51.1-141		%Rec	1	4/6/2022 5:55:24 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/5/2022 1:47:00 AM	66572
Surr: BFB	94.4	37.7-212		%Rec	1	4/5/2022 1:47:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 1:47:00 AM	66572
Toluene	ND	0.047		mg/Kg	1	4/5/2022 1:47:00 AM	66572
Ethylbenzene	ND	0.047		mg/Kg	1	4/5/2022 1:47:00 AM	66572
Xylenes, Total	ND	0.094		mg/Kg	1	4/5/2022 1:47:00 AM	66572
Surr: 4-Bromofluorobenzene	79.1	70-130		%Rec	1	4/5/2022 1:47:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-15

Project: Gerard AW Battery

Collection Date: 3/29/2022 10:40:00 AM

Lab ID: 2203G95-013

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	370	60		mg/Kg	20	4/6/2022 7:01:35 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	82	8.9		mg/Kg	1	4/6/2022 6:06:12 PM	66634
Motor Oil Range Organics (MRO)	62	45		mg/Kg	1	4/6/2022 6:06:12 PM	66634
Surr: DNOP	85.7	51.1-141		%Rec	1	4/6/2022 6:06:12 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/5/2022 2:47:00 AM	66572
Surr: BFB	98.4	37.7-212		%Rec	1	4/5/2022 2:47:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/5/2022 2:47:00 AM	66572
Toluene	ND	0.047		mg/Kg	1	4/5/2022 2:47:00 AM	66572
Ethylbenzene	ND	0.047		mg/Kg	1	4/5/2022 2:47:00 AM	66572
Xylenes, Total	ND	0.093		mg/Kg	1	4/5/2022 2:47:00 AM	66572
Surr: 4-Bromofluorobenzene	78.3	70-130		%Rec	1	4/5/2022 2:47:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-16

Project: Gerard AW Battery

Collection Date: 3/29/2022 10:45:00 AM

Lab ID: 2203G95-014

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	520	60		mg/Kg	20	4/6/2022 7:13:59 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/6/2022 6:16:59 PM	66634
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/6/2022 6:16:59 PM	66634
Surr: DNOP	86.0	51.1-141		%Rec	1	4/6/2022 6:16:59 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 3:46:00 AM	66572
Surr: BFB	94.3	37.7-212		%Rec	1	4/5/2022 3:46:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 3:46:00 AM	66572
Toluene	ND	0.049		mg/Kg	1	4/5/2022 3:46:00 AM	66572
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 3:46:00 AM	66572
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2022 3:46:00 AM	66572
Surr: 4-Bromofluorobenzene	77.8	70-130		%Rec	1	4/5/2022 3:46:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-17

Project: Gerard AW Battery

Collection Date: 3/29/2022 10:50:00 AM

Lab ID: 2203G95-015

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	720	60		mg/Kg	20	4/6/2022 7:26:23 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	4/6/2022 6:27:46 PM	66634
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2022 6:27:46 PM	66634
Surr: DNOP	92.2	51.1-141		%Rec	1	4/6/2022 6:27:46 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/5/2022 4:06:00 AM	66572
Surr: BFB	97.8	37.7-212		%Rec	1	4/5/2022 4:06:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 4:06:00 AM	66572
Toluene	ND	0.047		mg/Kg	1	4/5/2022 4:06:00 AM	66572
Ethylbenzene	ND	0.047		mg/Kg	1	4/5/2022 4:06:00 AM	66572
Xylenes, Total	ND	0.095		mg/Kg	1	4/5/2022 4:06:00 AM	66572
Surr: 4-Bromofluorobenzene	80.0	70-130		%Rec	1	4/5/2022 4:06:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-18

Project: Gerard AW Battery

Collection Date: 3/29/2022 10:55:00 AM

Lab ID: 2203G95-016

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	480	60		mg/Kg	20	4/6/2022 7:38:47 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/6/2022 6:38:31 PM	66634
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/6/2022 6:38:31 PM	66634
Surr: DNOP	87.3	51.1-141		%Rec	1	4/6/2022 6:38:31 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2022 4:26:00 AM	66572
Surr: BFB	96.0	37.7-212		%Rec	1	4/5/2022 4:26:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 4:26:00 AM	66572
Toluene	ND	0.048		mg/Kg	1	4/5/2022 4:26:00 AM	66572
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2022 4:26:00 AM	66572
Xylenes, Total	ND	0.096		mg/Kg	1	4/5/2022 4:26:00 AM	66572
Surr: 4-Bromofluorobenzene	76.6	70-130		%Rec	1	4/5/2022 4:26:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-19

Project: Gerard AW Battery

Collection Date: 3/29/2022 11:00:00 AM

Lab ID: 2203G95-017

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1500	59		mg/Kg	20	4/6/2022 7:51:12 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	17	8.5		mg/Kg	1	4/6/2022 6:49:16 PM	66634
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/6/2022 6:49:16 PM	66634
Surr: DNOP	86.6	51.1-141		%Rec	1	4/6/2022 6:49:16 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/5/2022 4:45:00 AM	66572
Surr: BFB	99.7	37.7-212		%Rec	1	4/5/2022 4:45:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/5/2022 4:45:00 AM	66572
Toluene	ND	0.046		mg/Kg	1	4/5/2022 4:45:00 AM	66572
Ethylbenzene	ND	0.046		mg/Kg	1	4/5/2022 4:45:00 AM	66572
Xylenes, Total	ND	0.092		mg/Kg	1	4/5/2022 4:45:00 AM	66572
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	4/5/2022 4:45:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-20

Project: Gerard AW Battery

Collection Date: 3/29/2022 12:00:00 PM

Lab ID: 2203G95-018

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3700	150		mg/Kg	50	4/7/2022 11:27:32 AM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	110	9.0		mg/Kg	1	4/6/2022 7:00:00 PM	66634
Motor Oil Range Organics (MRO)	140	45		mg/Kg	1	4/6/2022 7:00:00 PM	66634
Surr: DNOP	75.1	51.1-141		%Rec	1	4/6/2022 7:00:00 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2022 11:00:00 AM	66572
Surr: BFB	91.2	37.7-212		%Rec	1	4/5/2022 11:00:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 11:00:00 AM	66572
Toluene	ND	0.050		mg/Kg	1	4/5/2022 11:00:00 AM	66572
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2022 11:00:00 AM	66572
Xylenes, Total	ND	0.099		mg/Kg	1	4/5/2022 11:00:00 AM	66572
Surr: 4-Bromofluorobenzene	76.1	70-130		%Rec	1	4/5/2022 11:00:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-21

Project: Gerard AW Battery

Collection Date: 3/29/2022 12:05:00 PM

Lab ID: 2203G95-019

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	4/6/2022 8:16:01 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/6/2022 7:32:00 PM	66634
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/6/2022 7:32:00 PM	66634
Surr: DNOP	89.4	51.1-141		%Rec	1	4/6/2022 7:32:00 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2022 11:20:00 AM	66572
Surr: BFB	95.8	37.7-212		%Rec	1	4/5/2022 11:20:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 11:20:00 AM	66572
Toluene	ND	0.050		mg/Kg	1	4/5/2022 11:20:00 AM	66572
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2022 11:20:00 AM	66572
Xylenes, Total	ND	0.099		mg/Kg	1	4/5/2022 11:20:00 AM	66572
Surr: 4-Bromofluorobenzene	79.6	70-130		%Rec	1	4/5/2022 11:20:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-22

Project: Gerard AW Battery

Collection Date: 3/29/2022 12:10:00 PM

Lab ID: 2203G95-020

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1400	59		mg/Kg	20	4/6/2022 8:28:25 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/6/2022 7:42:40 PM	66634
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2022 7:42:40 PM	66634
Surr: DNOP	87.0	51.1-141		%Rec	1	4/6/2022 7:42:40 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2022 11:39:00 AM	66572
Surr: BFB	98.0	37.7-212		%Rec	1	4/5/2022 11:39:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 11:39:00 AM	66572
Toluene	ND	0.050		mg/Kg	1	4/5/2022 11:39:00 AM	66572
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2022 11:39:00 AM	66572
Xylenes, Total	ND	0.10		mg/Kg	1	4/5/2022 11:39:00 AM	66572
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	4/5/2022 11:39:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-23

Project: Gerard AW Battery

Collection Date: 3/29/2022 12:15:00 PM

Lab ID: 2203G95-021

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1900	59		mg/Kg	20	4/6/2022 8:40:49 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/6/2022 7:53:18 PM	66634
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2022 7:53:18 PM	66634
Surr: DNOP	108	51.1-141		%Rec	1	4/6/2022 7:53:18 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/5/2022 11:59:00 AM	66572
Surr: BFB	94.7	37.7-212		%Rec	1	4/5/2022 11:59:00 AM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 11:59:00 AM	66572
Toluene	ND	0.047		mg/Kg	1	4/5/2022 11:59:00 AM	66572
Ethylbenzene	ND	0.047		mg/Kg	1	4/5/2022 11:59:00 AM	66572
Xylenes, Total	ND	0.094		mg/Kg	1	4/5/2022 11:59:00 AM	66572
Surr: 4-Bromofluorobenzene	78.5	70-130		%Rec	1	4/5/2022 11:59:00 AM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-24

Project: Gerard AW Battery

Collection Date: 3/29/2022 12:20:00 PM

Lab ID: 2203G95-022

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1900	60		mg/Kg	20	4/6/2022 9:18:03 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/6/2022 8:03:58 PM	66634
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/6/2022 8:03:58 PM	66634
Surr: DNOP	88.7	51.1-141		%Rec	1	4/6/2022 8:03:58 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/5/2022 12:19:00 PM	66572
Surr: BFB	98.6	37.7-212		%Rec	1	4/5/2022 12:19:00 PM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/5/2022 12:19:00 PM	66572
Toluene	ND	0.046		mg/Kg	1	4/5/2022 12:19:00 PM	66572
Ethylbenzene	ND	0.046		mg/Kg	1	4/5/2022 12:19:00 PM	66572
Xylenes, Total	ND	0.092		mg/Kg	1	4/5/2022 12:19:00 PM	66572
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	4/5/2022 12:19:00 PM	66572

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

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

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Analytical Report

Lab Order 2203G95

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-25

Project: Gerard AW Battery

Collection Date: 3/29/2022 12:25:00 PM

Lab ID: 2203G95-023

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	4/6/2022 9:30:28 PM	66684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/6/2022 8:14:35 PM	66634
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2022 8:14:35 PM	66634
Surr: DNOP	101	51.1-141		%Rec	1	4/6/2022 8:14:35 PM	66634
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2022 12:39:00 PM	66572
Surr: BFB	94.6	37.7-212		%Rec	1	4/5/2022 12:39:00 PM	66572
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 12:39:00 PM	66572
Toluene	ND	0.048		mg/Kg	1	4/5/2022 12:39:00 PM	66572
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2022 12:39:00 PM	66572
Xylenes, Total	ND	0.096		mg/Kg	1	4/5/2022 12:39:00 PM	66572
Surr: 4-Bromofluorobenzene	76.8	70-130		%Rec	1	4/5/2022 12:39:00 PM	66572

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

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

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

WO#: 2203G95

12-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66684	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66684	RunNo: 87045								
Prep Date: 4/6/2022	Analysis Date: 4/6/2022	SeqNo: 3077541		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66684	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66684	RunNo: 87045								
Prep Date: 4/6/2022	Analysis Date: 4/6/2022	SeqNo: 3077542		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Sample ID: MB-66681	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66681	RunNo: 87098								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3079188		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66681	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66681	RunNo: 87098								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3079189		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.1	90	110			

Qualifiers:

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

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

WO#: 2203G95

12-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66587	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66587	RunNo: 86952								
Prep Date: 4/1/2022	Analysis Date: 4/4/2022	SeqNo: 3073080 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		82.6	51.1	141			

Sample ID: LCS-66587	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66587	RunNo: 86952								
Prep Date: 4/1/2022	Analysis Date: 4/4/2022	SeqNo: 3073081 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.5	68.9	135			
Surr: DNOP	4.0		5.000		79.1	51.1	141			

Sample ID: 2203G95-012AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SWX-15	Batch ID: 66634	RunNo: 87034								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077248 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.3	46.38	11.39	91.1	36.1	154			
Surr: DNOP	4.0		4.638		86.5	51.1	141			

Sample ID: 2203G95-012AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SWX-15	Batch ID: 66634	RunNo: 87034								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077249 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	9.6	47.98	11.39	106	36.1	154	15.2	33.9	
Surr: DNOP	4.7		4.798		97.0	51.1	141	0	0	

Sample ID: LCS-66634	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66634	RunNo: 87034								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077297 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	68.9	135			
Surr: DNOP	5.1		5.000		102	51.1	141			

Qualifiers:

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

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

WO#: 2203G95

12-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66634	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66634	RunNo: 87034								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077299	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		99.7	51.1	141			

Sample ID: LCS-66670	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66670	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078634	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		101	51.1	141			

Sample ID: MB-66670	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66670	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078637	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.2	51.1	141			

Qualifiers:

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

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

WO#: 2203G95

12-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: Ics-66561	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66561			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/4/2022			SeqNo: 3073301		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	2100		1000		209	37.7	212			

Sample ID: mb-66561	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66561			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/4/2022			SeqNo: 3073302		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.8	37.7	212			

Sample ID: Ics-66572	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66572			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/5/2022			SeqNo: 3073325		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	72.3	137			
Surr: BFB	2200		1000		220	37.7	212			S

Sample ID: mb-66572	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66572			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/5/2022			SeqNo: 3073326		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		94.7	37.7	212			

Sample ID: 2203g95-012ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SWX-15	Batch ID: 66572			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/5/2022			SeqNo: 3073328		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.7	23.47	0	110	70	130			
Surr: BFB	2000		939.0		211	37.7	212			

Sample ID: 2203g95-012amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SWX-15	Batch ID: 66572			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/5/2022			SeqNo: 3073329		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2203G95
12-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2203g95-012amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SWX-15		Batch ID: 66572		RunNo: 86973						
Prep Date: 4/1/2022		Analysis Date: 4/5/2022		SeqNo: 3073329		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.7	23.36	0	105	70	130	4.90	20	
Surr: BFB	2000		934.6		217	37.7	212	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 interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2203G95

12-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: lcs-66561	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66561			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/4/2022			SeqNo: 3073339			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.3	80	120			
Toluene	0.86	0.050	1.000	0	86.2	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.0	80	120			
Surr: 4-Bromofluorobenzene	0.77		1.000		77.1	70	130			

Sample ID: mb-66561	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66561			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/4/2022			SeqNo: 3073340			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	0.78		1.000		78.2	70	130			

Sample ID: lcs-66572	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66572			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/5/2022			SeqNo: 3073363			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.8	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.0	80	120			
Surr: 4-Bromofluorobenzene	0.79		1.000		79.1	70	130			

Sample ID: mb-66572	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66572			RunNo: 86973						
Prep Date: 4/1/2022	Analysis Date: 4/5/2022			SeqNo: 3073364			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	0.78		1.000		77.9	70	130			

Qualifiers:

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

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

WO#: 2203G95

12-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2203g95-013ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-15	Batch ID: 66572	RunNo: 86973								
Prep Date: 4/1/2022	Analysis Date: 4/5/2022	SeqNo: 3073367 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.023	0.9372	0	83.6	68.8	120			
Toluene	0.80	0.047	0.9372	0	85.2	73.6	124			
Ethylbenzene	0.81	0.047	0.9372	0	86.0	72.7	129			
Xylenes, Total	2.4	0.094	2.812	0	85.4	75.7	126			
Surr: 4-Bromofluorobenzene	0.75		0.9372		80.5	70	130			

Sample ID: 2203g95-013amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-15	Batch ID: 66572	RunNo: 86973								
Prep Date: 4/1/2022	Analysis Date: 4/5/2022	SeqNo: 3073368 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.024	0.9416	0	85.6	68.8	120	2.82	20	
Toluene	0.82	0.047	0.9416	0	87.1	73.6	124	2.75	20	
Ethylbenzene	0.83	0.047	0.9416	0	87.7	72.7	129	2.38	20	
Xylenes, Total	2.5	0.094	2.825	0	87.1	75.7	126	2.45	20	
Surr: 4-Bromofluorobenzene	0.78		0.9416		83.2	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203G95

RcptNo: 1

Received By: Juan Rojas

3/31/2022 9:05:00 AM

Completed By: Tracy Casarrubias

3/31/2022 10:43:38 AM

Reviewed By:

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

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	1.8	Good	Yes			

Chain-of-Custody Record

Client: GHD

Mailing Address:

2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

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

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice:

☒ Yes☐ No

of Coolers:

Cooler Temp (including CP):

21-0.321.8

Date Time Matrix Sample Name

3/29/22 1040

S

SW-15

462 Jar /

W/A

HEAL No. 2203G95

BTX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

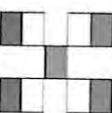
8260 (VOA)

8270 (Semi-VOA)

Chloride 300 M

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

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

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3/29/22	1040	S	SW-15	462 Jar /	W/A	2203G95
	1045		SW-16			013
	1050		SW-17			014
	1055		SW-18			015
	1100		SW-19			016
	1200		SW-20			017
	1205		SW-21			018
	1210		SW-22			019
	1215		SW-23			020
	1220		SW-24			021
	1225		SW-25			022
						023

Date	Time	Relinquished by:	Via:	Date	Time
3/29/22	1700			3/30/22	700
3/30/22	1900			3/31/22	910

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

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



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

April 25, 2022

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

RE: Gerard AW Battery

OrderNo.: 2204837

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/20/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204837

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-6

Project: Gerard AW Battery

Collection Date: 4/18/2022 10:00:00 AM

Lab ID: 2204837-001

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1900	60		mg/Kg	20	4/21/2022 3:10:09 AM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/20/2022 4:35:44 PM	66943
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/20/2022 4:35:44 PM	66943
Surr: DNOP	70.6	51.1-141		%Rec	1	4/20/2022 4:35:44 PM	66943
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/20/2022 9:42:50 AM	A87386
Surr: BFB	95.1	37.7-212		%Rec	1	4/20/2022 9:42:50 AM	A87386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	4/20/2022 9:42:50 AM	D87386
Toluene	ND	0.039		mg/Kg	1	4/20/2022 9:42:50 AM	D87386
Ethylbenzene	ND	0.039		mg/Kg	1	4/20/2022 9:42:50 AM	D87386
Xylenes, Total	ND	0.078		mg/Kg	1	4/20/2022 9:42:50 AM	D87386
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/20/2022 9:42:50 AM	D87386

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

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

Page 1 of 6

Analytical Report

Lab Order 2204837

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-16A

Project: Gerard AW Battery

Collection Date: 4/19/2022 11:30:00 AM

Lab ID: 2204837-002

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1800	60		mg/Kg	20	4/21/2022 3:22:33 AM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	76	9.5		mg/Kg	1	4/20/2022 4:59:33 PM	66943
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/20/2022 4:59:33 PM	66943
Surr: DNOP	77.5	51.1-141		%Rec	1	4/20/2022 4:59:33 PM	66943
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/20/2022 10:06:15 AM	A87386
Surr: BFB	95.2	37.7-212		%Rec	5	4/20/2022 10:06:15 AM	A87386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.089		mg/Kg	5	4/20/2022 10:06:15 AM	D87386
Toluene	ND	0.18		mg/Kg	5	4/20/2022 10:06:15 AM	D87386
Ethylbenzene	ND	0.18		mg/Kg	5	4/20/2022 10:06:15 AM	D87386
Xylenes, Total	ND	0.36		mg/Kg	5	4/20/2022 10:06:15 AM	D87386
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	5	4/20/2022 10:06:15 AM	D87386

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

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

Page 2 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204837

25-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66958	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66958	RunNo: 87394								
Prep Date: 4/20/2022	Analysis Date: 4/21/2022	SeqNo: 3091542	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66958	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66958	RunNo: 87394								
Prep Date: 4/20/2022	Analysis Date: 4/21/2022	SeqNo: 3091543	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Page 3 of 6

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

WO#: 2204837

25-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66943	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66943	RunNo: 87372								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3092540 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.1		10.00		61.0	51.1	141			

Sample ID: LCS-66943	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66943	RunNo: 87372								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3092541 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	68.9	135			
Surr: DNOP	2.8		5.000		56.8	51.1	141			

Sample ID: 2204837-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-6	Batch ID: 66943	RunNo: 87372								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3092544 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.4	47.17	0	101	36.1	154			
Surr: DNOP	3.0		4.717		64.1	51.1	141			

Sample ID: 2204837-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-6	Batch ID: 66943	RunNo: 87372								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3092546 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	49.75	0	103	36.1	154	7.17	33.9	
Surr: DNOP	3.3		4.975		66.1	51.1	141	0	0	

Qualifiers:

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

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

WO#: 2204837

25-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: A87386			RunNo: 87386						
Prep Date:	Analysis Date: 4/20/2022			SeqNo: 3091326		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.2	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: A87386			RunNo: 87386						
Prep Date:	Analysis Date: 4/20/2022			SeqNo: 3091327		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	97.0	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: 2204837-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-6	Batch ID: A87386			RunNo: 87386						
Prep Date:	Analysis Date: 4/20/2022			SeqNo: 3091330		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.9	19.41	0	99.0	70	130			
Surr: BFB	1600		776.4		201	37.7	212			

Sample ID: 2204837-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-6	Batch ID: A87386			RunNo: 87386						
Prep Date:	Analysis Date: 4/20/2022			SeqNo: 3091331		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.9	19.41	0	96.5	70	130	2.58	20	
Surr: BFB	1500		776.4		199	37.7	212	0	0	

Qualifiers:

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

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

WO#: 2204837

25-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: D87386		RunNo: 87386							
Prep Date:	Analysis Date: 4/20/2022		SeqNo: 3091361		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

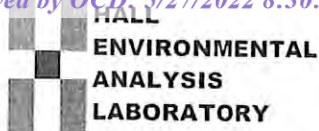
Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: D87386		RunNo: 87386							
Prep Date:	Analysis Date: 4/20/2022		SeqNo: 3091362		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	70	130			

Sample ID: 2204837-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-16A	Batch ID: D87386		RunNo: 87386							
Prep Date:	Analysis Date: 4/20/2022		SeqNo: 3091365		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.0	0.089	3.564	0	84.6	68.8	120			
Toluene	3.2	0.18	3.564	0	89.8	73.6	124			
Ethylbenzene	3.2	0.18	3.564	0	91.0	72.7	129			
Xylenes, Total	9.8	0.36	10.69	0	91.5	75.7	126			
Surr: 4-Bromofluorobenzene	3.5		3.564		97.1	70	130			

Sample ID: 2204837-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-16A	Batch ID: D87386		RunNo: 87386							
Prep Date:	Analysis Date: 4/20/2022		SeqNo: 3091366		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.0	0.089	3.564	0	84.1	68.8	120	0.581	20	
Toluene	3.2	0.18	3.564	0	89.7	73.6	124	0.0557	20	
Ethylbenzene	3.2	0.18	3.564	0	90.8	72.7	129	0.198	20	
Xylenes, Total	9.8	0.36	10.69	0	92.0	75.7	126	0.596	20	
Surr: 4-Bromofluorobenzene	3.6		3.564		100	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2204837

RcptNo: 1

Received By: Tracy Casarrubias 4/20/2022 7:40:00 AM

Completed By: Tracy Casarrubias 4/20/2022 8:00:19 AM

Reviewed By: IO 4/20/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: CM 4/20/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			
2	3.4	Good	Yes			

Chain-of-Custody Record

Client: GHD

Mailing Address: 2135 S Loop 250 W.

Phone #: 432-868-0086

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush

Project Name:

Grand All Battery

Project #:

11228976

Project Manager:

Becky Haskell @ GHD.com

Tom. Larson @ GHD.com

Sampler: Hearth Boyd

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 5.2 to 5.3 (°C)

Container Type and # 4oz Jar / 1 Preservative Type N/A

HEAL No. 2204837

001

002

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

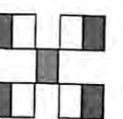
X

X

X

X

X



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMB's (8021)
TPH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
Cl, F, Br, NO₃, NO₂, PO₄, SO₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)
Chloride 300 m

Remarks: Email: Amber Griffin @ EOG Resources.com,
Chase Suttitt @ EOG Resources.com, Tom, "Becky",
Hearth, Boyd @ EOG Resources.com,
Bill direct to EOG Attn to Chase

Date: 4/19/22 Time: 1600

Received by: Amber Griffin Via: email Date: 4/20/22 Time: 7:46

Relinquished by: Amber Griffin Date: 4/19/22 Time: 1600

Time: 1600

Time: 1600

Time: 1600

Time: 1600



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

April 25, 2022

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

RE: Gerard AW Battery

OrderNo.: 2204837

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/20/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204837

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-6

Project: Gerard AW Battery

Collection Date: 4/18/2022 10:00:00 AM

Lab ID: 2204837-001

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1900	60		mg/Kg	20	4/21/2022 3:10:09 AM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/20/2022 4:35:44 PM	66943
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/20/2022 4:35:44 PM	66943
Surr: DNOP	70.6	51.1-141		%Rec	1	4/20/2022 4:35:44 PM	66943
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/20/2022 9:42:50 AM	A87386
Surr: BFB	95.1	37.7-212		%Rec	1	4/20/2022 9:42:50 AM	A87386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	4/20/2022 9:42:50 AM	D87386
Toluene	ND	0.039		mg/Kg	1	4/20/2022 9:42:50 AM	D87386
Ethylbenzene	ND	0.039		mg/Kg	1	4/20/2022 9:42:50 AM	D87386
Xylenes, Total	ND	0.078		mg/Kg	1	4/20/2022 9:42:50 AM	D87386
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/20/2022 9:42:50 AM	D87386

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

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

Page 1 of 6

Analytical Report

Lab Order 2204837

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-16A

Project: Gerard AW Battery

Collection Date: 4/19/2022 11:30:00 AM

Lab ID: 2204837-002

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1800	60		mg/Kg	20	4/21/2022 3:22:33 AM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	76	9.5		mg/Kg	1	4/20/2022 4:59:33 PM	66943
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/20/2022 4:59:33 PM	66943
Surr: DNOP	77.5	51.1-141		%Rec	1	4/20/2022 4:59:33 PM	66943
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/20/2022 10:06:15 AM	A87386
Surr: BFB	95.2	37.7-212		%Rec	5	4/20/2022 10:06:15 AM	A87386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.089		mg/Kg	5	4/20/2022 10:06:15 AM	D87386
Toluene	ND	0.18		mg/Kg	5	4/20/2022 10:06:15 AM	D87386
Ethylbenzene	ND	0.18		mg/Kg	5	4/20/2022 10:06:15 AM	D87386
Xylenes, Total	ND	0.36		mg/Kg	5	4/20/2022 10:06:15 AM	D87386
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	5	4/20/2022 10:06:15 AM	D87386

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

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

Page 2 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204837

25-Apr-22

Client: GHD Midland

Project: Gerard AW Battery

Sample ID: MB-66958	SampType: mblk			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 66958			RunNo: 87394						
Prep Date: 4/20/2022	Analysis Date: 4/21/2022			SeqNo: 3091542			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66958	SampType: lcs			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 66958			RunNo: 87394						
Prep Date: 4/20/2022	Analysis Date: 4/21/2022			SeqNo: 3091543			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 interference

B

Analyte detected in the associated Method Blank

E

Estimated value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

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

WO#: 2204837

25-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-66943	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66943	RunNo: 87372								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3092540 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.1		10.00		61.0	51.1	141			

Sample ID: LCS-66943	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66943	RunNo: 87372								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3092541 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	68.9	135			
Surr: DNOP	2.8		5.000		56.8	51.1	141			

Sample ID: 2204837-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-6	Batch ID: 66943	RunNo: 87372								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3092544 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.4	47.17	0	101	36.1	154			
Surr: DNOP	3.0		4.717		64.1	51.1	141			

Sample ID: 2204837-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-6	Batch ID: 66943	RunNo: 87372								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3092546 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	49.75	0	103	36.1	154	7.17	33.9	
Surr: DNOP	3.3		4.975		66.1	51.1	141	0	0	

Qualifiers:

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

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

WO#: 2204837

25-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: A87386			RunNo: 87386						
Prep Date:	Analysis Date: 4/20/2022			SeqNo: 3091326			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.2	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: A87386			RunNo: 87386						
Prep Date:	Analysis Date: 4/20/2022			SeqNo: 3091327			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	97.0	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: 2204837-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-6	Batch ID: A87386			RunNo: 87386						
Prep Date:	Analysis Date: 4/20/2022			SeqNo: 3091330			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.9	19.41	0	99.0	70	130			
Surr: BFB	1600		776.4		201	37.7	212			

Sample ID: 2204837-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-6	Batch ID: A87386			RunNo: 87386						
Prep Date:	Analysis Date: 4/20/2022			SeqNo: 3091331			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.9	19.41	0	96.5	70	130	2.58	20	
Surr: BFB	1500		776.4		199	37.7	212	0	0	

Qualifiers:

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

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

WO#: 2204837

25-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: D87386		RunNo: 87386							
Prep Date:	Analysis Date: 4/20/2022		SeqNo: 3091361		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

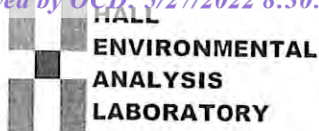
Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: D87386		RunNo: 87386							
Prep Date:	Analysis Date: 4/20/2022		SeqNo: 3091362		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	70	130			

Sample ID: 2204837-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-16A	Batch ID: D87386		RunNo: 87386							
Prep Date:	Analysis Date: 4/20/2022		SeqNo: 3091365		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.0	0.089	3.564	0	84.6	68.8	120			
Toluene	3.2	0.18	3.564	0	89.8	73.6	124			
Ethylbenzene	3.2	0.18	3.564	0	91.0	72.7	129			
Xylenes, Total	9.8	0.36	10.69	0	91.5	75.7	126			
Surr: 4-Bromofluorobenzene	3.5		3.564		97.1	70	130			

Sample ID: 2204837-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-16A	Batch ID: D87386		RunNo: 87386							
Prep Date:	Analysis Date: 4/20/2022		SeqNo: 3091366		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.0	0.089	3.564	0	84.1	68.8	120	0.581	20	
Toluene	3.2	0.18	3.564	0	89.7	73.6	124	0.0557	20	
Ethylbenzene	3.2	0.18	3.564	0	90.8	72.7	129	0.198	20	
Xylenes, Total	9.8	0.36	10.69	0	92.0	75.7	126	0.596	20	
Surr: 4-Bromofluorobenzene	3.6		3.564		100	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2204837

RcptNo: 1

Received By: Tracy Casarrubias 4/20/2022 7:40:00 AM

Completed By: Tracy Casarrubias 4/20/2022 8:00:19 AM

Reviewed By: IO 4/20/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: CM 4/20/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			
2	3.4	Good	Yes			



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

April 29, 2022

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

RE: Gerard AW Battery

OrderNo.: 2204981

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/22/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-26

Project: Gerard AW Battery

Collection Date: 4/20/2022 12:30:00 PM

Lab ID: 2204981-001

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2300	59		mg/Kg	20	4/22/2022 5:49:09 PM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	290	10		mg/Kg	1	4/24/2022 3:11:50 PM	67012
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	4/24/2022 3:11:50 PM	67012
Surr: DNOP	102	51.1-141		%Rec	1	4/24/2022 3:11:50 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	19	17		mg/Kg	5	4/22/2022 1:29:00 PM	A87447
Surr: BFB	187	37.7-212		%Rec	5	4/22/2022 1:29:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.085		mg/Kg	5	4/22/2022 1:29:00 PM	B87447
Toluene	ND	0.17		mg/Kg	5	4/22/2022 1:29:00 PM	B87447
Ethylbenzene	ND	0.17		mg/Kg	5	4/22/2022 1:29:00 PM	B87447
Xylenes, Total	ND	0.34		mg/Kg	5	4/22/2022 1:29:00 PM	B87447
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	5	4/22/2022 1:29:00 PM	B87447

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

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

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Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-27

Project: Gerard AW Battery

Collection Date: 4/20/2022 12:40:00 PM

Lab ID: 2204981-002

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3500	150		mg/Kg	50	4/25/2022 8:59:13 AM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	280	10		mg/Kg	1	4/24/2022 3:35:22 PM	67012
Motor Oil Range Organics (MRO)	160	50		mg/Kg	1	4/24/2022 3:35:22 PM	67012
Surr: DNOP	105	51.1-141		%Rec	1	4/24/2022 3:35:22 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/22/2022 2:28:00 PM	A87447
Surr: BFB	117	37.7-212		%Rec	1	4/22/2022 2:28:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.017		mg/Kg	1	4/22/2022 2:28:00 PM	B87447
Toluene	ND	0.034		mg/Kg	1	4/22/2022 2:28:00 PM	B87447
Ethylbenzene	ND	0.034		mg/Kg	1	4/22/2022 2:28:00 PM	B87447
Xylenes, Total	ND	0.068		mg/Kg	1	4/22/2022 2:28:00 PM	B87447
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	4/22/2022 2:28:00 PM	B87447

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

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

Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-28

Project: Gerard AW Battery

Collection Date: 4/20/2022 12:50:00 PM

Lab ID: 2204981-003

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	580	60		mg/Kg	20	4/22/2022 6:13:57 PM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	340	9.2		mg/Kg	1	4/24/2022 3:58:55 PM	67012
Motor Oil Range Organics (MRO)	130	46		mg/Kg	1	4/24/2022 3:58:55 PM	67012
Surr: DNOP	103	51.1-141		%Rec	1	4/24/2022 3:58:55 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	38	17		mg/Kg	5	4/22/2022 3:27:00 PM	A87447
Surr: BFB	281	37.7-212	S	%Rec	5	4/22/2022 3:27:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.086		mg/Kg	5	4/22/2022 3:27:00 PM	B87447
Toluene	ND	0.17		mg/Kg	5	4/22/2022 3:27:00 PM	B87447
Ethylbenzene	ND	0.17		mg/Kg	5	4/22/2022 3:27:00 PM	B87447
Xylenes, Total	ND	0.35		mg/Kg	5	4/22/2022 3:27:00 PM	B87447
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	5	4/22/2022 3:27:00 PM	B87447

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

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

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Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-23A

Project: Gerard AW Battery

Collection Date: 4/20/2022 1:00:00 PM

Lab ID: 2204981-004

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	9000	300		mg/Kg	100	4/25/2022 9:11:34 AM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	260	10		mg/Kg	1	4/24/2022 4:22:30 PM	67012
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	4/24/2022 4:22:30 PM	67012
Surr: DNOP	107	51.1-141		%Rec	1	4/24/2022 4:22:30 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	4/22/2022 3:47:00 PM	A87447
Surr: BFB	123	37.7-212		%Rec	5	4/22/2022 3:47:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.082		mg/Kg	5	4/22/2022 3:47:00 PM	B87447
Toluene	ND	0.16		mg/Kg	5	4/22/2022 3:47:00 PM	B87447
Ethylbenzene	ND	0.16		mg/Kg	5	4/22/2022 3:47:00 PM	B87447
Xylenes, Total	ND	0.33		mg/Kg	5	4/22/2022 3:47:00 PM	B87447
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	5	4/22/2022 3:47:00 PM	B87447

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

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

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Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-28A

Project: Gerard AW Battery

Collection Date: 4/20/2022 1:10:00 PM

Lab ID: 2204981-005

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	9400	300		mg/Kg	100	4/25/2022 9:23:54 AM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/24/2022 4:46:06 PM	67012
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/24/2022 4:46:06 PM	67012
Surr: DNOP	95.4	51.1-141		%Rec	1	4/24/2022 4:46:06 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/22/2022 4:07:00 PM	A87447
Surr: BFB	109	37.7-212		%Rec	1	4/22/2022 4:07:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.019		mg/Kg	1	4/22/2022 4:07:00 PM	B87447
Toluene	ND	0.038		mg/Kg	1	4/22/2022 4:07:00 PM	B87447
Ethylbenzene	ND	0.038		mg/Kg	1	4/22/2022 4:07:00 PM	B87447
Xylenes, Total	ND	0.076		mg/Kg	1	4/22/2022 4:07:00 PM	B87447
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	4/22/2022 4:07:00 PM	B87447

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

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

Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-29

Project: Gerard AW Battery

Collection Date: 4/20/2022 1:20:00 PM

Lab ID: 2204981-006

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2800	150		mg/Kg	50	4/25/2022 9:36:15 AM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/24/2022 5:09:40 PM	67012
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/24/2022 5:09:40 PM	67012
Surr: DNOP	95.9	51.1-141		%Rec	1	4/24/2022 5:09:40 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/22/2022 4:26:00 PM	A87447
Surr: BFB	105	37.7-212		%Rec	1	4/22/2022 4:26:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.017		mg/Kg	1	4/22/2022 4:26:00 PM	B87447
Toluene	ND	0.034		mg/Kg	1	4/22/2022 4:26:00 PM	B87447
Ethylbenzene	ND	0.034		mg/Kg	1	4/22/2022 4:26:00 PM	B87447
Xylenes, Total	ND	0.067		mg/Kg	1	4/22/2022 4:26:00 PM	B87447
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	4/22/2022 4:26:00 PM	B87447

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

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

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Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-30

Project: Gerard AW Battery

Collection Date: 4/20/2022 1:30:00 PM

Lab ID: 2204981-007

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3700	150		mg/Kg	50	4/25/2022 9:48:37 AM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/24/2022 5:33:26 PM	67012
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 5:33:26 PM	67012
Surr: DNOP	92.4	51.1-141		%Rec	1	4/24/2022 5:33:26 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/22/2022 4:46:00 PM	A87447
Surr: BFB	105	37.7-212		%Rec	1	4/22/2022 4:46:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.019		mg/Kg	1	4/22/2022 4:46:00 PM	B87447
Toluene	ND	0.037		mg/Kg	1	4/22/2022 4:46:00 PM	B87447
Ethylbenzene	ND	0.037		mg/Kg	1	4/22/2022 4:46:00 PM	B87447
Xylenes, Total	ND	0.074		mg/Kg	1	4/22/2022 4:46:00 PM	B87447
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	4/22/2022 4:46:00 PM	B87447

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

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

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Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-31

Project: Gerard AW Battery

Collection Date: 4/20/2022 1:40:00 PM

Lab ID: 2204981-008

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	5000	300		mg/Kg	100	4/25/2022 10:00:58 AM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/24/2022 5:57:01 PM	67012
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 5:57:01 PM	67012
Surr: DNOP	92.5	51.1-141		%Rec	1	4/24/2022 5:57:01 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/22/2022 7:04:00 PM	A87447
Surr: BFB	105	37.7-212		%Rec	1	4/22/2022 7:04:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.017		mg/Kg	1	4/22/2022 7:04:00 PM	B87447
Toluene	ND	0.034		mg/Kg	1	4/22/2022 7:04:00 PM	B87447
Ethylbenzene	ND	0.034		mg/Kg	1	4/22/2022 7:04:00 PM	B87447
Xylenes, Total	ND	0.069		mg/Kg	1	4/22/2022 7:04:00 PM	B87447
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	4/22/2022 7:04:00 PM	B87447

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

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

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Analytical Report

Lab Order 2204981

Date Reported: 4/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-31A

Project: Gerard AW Battery

Collection Date: 4/20/2022 1:50:00 PM

Lab ID: 2204981-009

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1700	60		mg/Kg	20	4/22/2022 8:18:05 PM	67022
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/24/2022 6:20:36 PM	67012
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 6:20:36 PM	67012
Surr: DNOP	96.7	51.1-141		%Rec	1	4/24/2022 6:20:36 PM	67012
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	13		mg/Kg	5	4/22/2022 7:24:00 PM	A87447
Surr: BFB	107	37.7-212		%Rec	5	4/22/2022 7:24:00 PM	A87447
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.066		mg/Kg	5	4/22/2022 7:24:00 PM	B87447
Toluene	ND	0.13		mg/Kg	5	4/22/2022 7:24:00 PM	B87447
Ethylbenzene	ND	0.13		mg/Kg	5	4/22/2022 7:24:00 PM	B87447
Xylenes, Total	ND	0.26		mg/Kg	5	4/22/2022 7:24:00 PM	B87447
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	5	4/22/2022 7:24:00 PM	B87447

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204981

29-Apr-22

Client: GHD Midland

Project: Gerard AW Battery

Sample ID: MB-67022		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 67022		RunNo: 87446						
Prep Date: 4/22/2022		Analysis Date: 4/22/2022		SeqNo: 3094481			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67022		SampType: lcs			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 67022			RunNo: 87446					
Prep Date: 4/22/2022		Analysis Date: 4/22/2022			SeqNo: 3094482		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

- Qualifiers:
- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2204981

29-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-67012	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67012	RunNo: 87468								
Prep Date: 4/22/2022	Analysis Date: 4/24/2022	SeqNo: 3095129	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		91.9	51.1	141			

Sample ID: LCS-67012	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67012	RunNo: 87468								
Prep Date: 4/22/2022	Analysis Date: 4/24/2022	SeqNo: 3095130	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	68.9	135			
Surr: DNOP	4.4		5.000		88.3	51.1	141			

Qualifiers:

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

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

WO#: 2204981

29-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: A87447		RunNo: 87447							
Prep Date:	Analysis Date: 4/22/2022		SeqNo: 3094878		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	72.3	137			
Surr: BFB	2100		1000		211	37.7	212			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: A87447		RunNo: 87447							
Prep Date:	Analysis Date: 4/22/2022		SeqNo: 3094879		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		105	37.7	212			

Sample ID: 2204981-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SW-26	Batch ID: A87447		RunNo: 87447							
Prep Date:	Analysis Date: 4/22/2022		SeqNo: 3094884		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	110	17	84.80	19.13	104	70	130			
Surr: BFB	10000		3392		296	37.7	212			S

Sample ID: 2204981-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SW-26	Batch ID: A87447		RunNo: 87447							
Prep Date:	Analysis Date: 4/22/2022		SeqNo: 3094885		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	110	17	84.80	19.13	104	70	130	0.0316	20	
Surr: BFB	10000		3392		294	37.7	212	0	0	S

Qualifiers:

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

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

WO#: 2204981

29-Apr-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B87447	RunNo: 87447								
Prep Date:	Analysis Date: 4/22/2022	SeqNo: 3094943	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.1	80	120			
Toluene	0.84	0.050	1.000	0	83.6	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.3	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.7	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.3	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B87447	RunNo: 87447								
Prep Date:	Analysis Date: 4/22/2022	SeqNo: 3094944	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		83.9	70	130			

Sample ID: 2204981-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-27	Batch ID: B87447	RunNo: 87447								
Prep Date:	Analysis Date: 4/22/2022	SeqNo: 3094951	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.51	0.017	0.6757	0	75.2	68.8	120	3.83	20	
Toluene	0.53	0.034	0.6757	0	78.1	73.6	124	3.44	20	
Ethylbenzene	0.54	0.034	0.6757	0	79.4	72.7	129	2.41	20	
Xylenes, Total	1.6	0.068	2.027	0	79.1	75.7	126	2.24	20	
Surr: 4-Bromofluorobenzene	0.55		0.6757		80.8	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2204981

RcptNo: 1

Received By: Cheyenne Cason

4/22/2022 8:00:00 AM

Completed By: Desiree Dominguez

4/22/2022 8:19:52 AM

Reviewed By: Cme

4/22/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: JN 4/22/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				
2	0.4	Good				

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



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

May 05, 2022

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

RE: Gerard AW Battery

OrderNo.: 2204A29

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 17 sample(s) on 4/23/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-29A

Project: Gerard AW Battery

Collection Date: 4/21/2022 12:00:00 PM

Lab ID: 2204A29-001

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7300	300		mg/Kg	100	4/26/2022 10:05:10 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	1000	49		mg/Kg	5	4/26/2022 3:33:04 PM	67035
Motor Oil Range Organics (MRO)	470	240		mg/Kg	5	4/26/2022 3:33:04 PM	67035
Surr: DNOP	82.6	51.1-141		%Rec	5	4/26/2022 3:33:04 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/25/2022 11:00:11 AM	67031
Surr: BFB	104	37.7-212		%Rec	5	4/25/2022 11:00:11 AM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	4/25/2022 11:00:11 AM	67031
Toluene	ND	0.25		mg/Kg	5	4/25/2022 11:00:11 AM	67031
Ethylbenzene	ND	0.25		mg/Kg	5	4/25/2022 11:00:11 AM	67031
Xylenes, Total	ND	0.50		mg/Kg	5	4/25/2022 11:00:11 AM	67031
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	4/25/2022 11:00:11 AM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-56

Project: Gerard AW Battery

Collection Date: 4/21/2022 12:10:00 PM

Lab ID: 2204A29-002

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	12000	600		mg/Kg	200	4/26/2022 10:17:31 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	470	9.8		mg/Kg	1	4/26/2022 11:11:31 AM	67035
Motor Oil Range Organics (MRO)	220	49		mg/Kg	1	4/26/2022 11:11:31 AM	67035
Surr: DNOP	89.8	51.1-141		%Rec	1	4/26/2022 11:11:31 AM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/25/2022 5:16:28 PM	67031
Surr: BFB	114	37.7-212		%Rec	1	4/25/2022 5:16:28 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/25/2022 5:16:28 PM	67031
Toluene	ND	0.050		mg/Kg	1	4/25/2022 5:16:28 PM	67031
Ethylbenzene	ND	0.050		mg/Kg	1	4/25/2022 5:16:28 PM	67031
Xylenes, Total	ND	0.10		mg/Kg	1	4/25/2022 5:16:28 PM	67031
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	4/25/2022 5:16:28 PM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-57

Project: Gerard AW Battery

Collection Date: 4/21/2022 12:20:00 PM

Lab ID: 2204A29-003

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5500	300		mg/Kg	100	4/26/2022 10:29:52 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	230	10		mg/Kg	1	4/26/2022 11:32:59 AM	67035
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	4/26/2022 11:32:59 AM	67035
Surr: DNOP	95.8	51.1-141		%Rec	1	4/26/2022 11:32:59 AM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/25/2022 8:24:30 PM	67031
Surr: BFB	103	37.7-212		%Rec	1	4/25/2022 8:24:30 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/25/2022 8:24:30 PM	67031
Toluene	ND	0.048		mg/Kg	1	4/25/2022 8:24:30 PM	67031
Ethylbenzene	ND	0.048		mg/Kg	1	4/25/2022 8:24:30 PM	67031
Xylenes, Total	ND	0.097		mg/Kg	1	4/25/2022 8:24:30 PM	67031
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	4/25/2022 8:24:30 PM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-58

Project: Gerard AW Battery

Collection Date: 4/21/2022 12:30:00 PM

Lab ID: 2204A29-004

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	910	60		mg/Kg	20	4/25/2022 8:43:04 PM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/26/2022 11:54:49 AM	67035
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/26/2022 11:54:49 AM	67035
Surr: DNOP	90.0	51.1-141		%Rec	1	4/26/2022 11:54:49 AM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 8:48:03 PM	67031
Surr: BFB	95.1	37.7-212		%Rec	1	4/25/2022 8:48:03 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/25/2022 8:48:03 PM	67031
Toluene	ND	0.049		mg/Kg	1	4/25/2022 8:48:03 PM	67031
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 8:48:03 PM	67031
Xylenes, Total	ND	0.099		mg/Kg	1	4/25/2022 8:48:03 PM	67031
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	4/25/2022 8:48:03 PM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-59

Project: Gerard AW Battery

Collection Date: 4/21/2022 12:40:00 PM

Lab ID: 2204A29-005

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6000	300		mg/Kg	100	4/26/2022 10:42:13 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	25	9.7		mg/Kg	1	4/26/2022 12:05:37 PM	67035
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2022 12:05:37 PM	67035
Surr: DNOP	106	51.1-141		%Rec	1	4/26/2022 12:05:37 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/25/2022 9:11:40 PM	67031
Surr: BFB	93.7	37.7-212		%Rec	1	4/25/2022 9:11:40 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/25/2022 9:11:40 PM	67031
Toluene	ND	0.050		mg/Kg	1	4/25/2022 9:11:40 PM	67031
Ethylbenzene	ND	0.050		mg/Kg	1	4/25/2022 9:11:40 PM	67031
Xylenes, Total	ND	0.10		mg/Kg	1	4/25/2022 9:11:40 PM	67031
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	4/25/2022 9:11:40 PM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-60

Project: Gerard AW Battery

Collection Date: 4/21/2022 12:50:00 PM

Lab ID: 2204A29-006

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4300	300		mg/Kg	100	4/26/2022 10:54:33 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	3100	93		mg/Kg	10	4/26/2022 12:16:26 PM	67035
Motor Oil Range Organics (MRO)	1700	460		mg/Kg	10	4/26/2022 12:16:26 PM	67035
Surr: DNOP	0	51.1-141	S	%Rec	10	4/26/2022 12:16:26 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	14	4.9		mg/Kg	1	4/25/2022 9:35:11 PM	67031
Surr: BFB	182	37.7-212		%Rec	1	4/25/2022 9:35:11 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/25/2022 9:35:11 PM	67031
Toluene	ND	0.049		mg/Kg	1	4/25/2022 9:35:11 PM	67031
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 9:35:11 PM	67031
Xylenes, Total	ND	0.099		mg/Kg	1	4/25/2022 9:35:11 PM	67031
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/25/2022 9:35:11 PM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-12A

Project: Gerard AW Battery

Collection Date: 4/21/2022 1:00:00 PM

Lab ID: 2204A29-007

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	4/25/2022 9:20:07 PM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/26/2022 12:27:17 PM	67035
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/26/2022 12:27:17 PM	67035
Surr: DNOP	85.7	51.1-141		%Rec	1	4/26/2022 12:27:17 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 9:58:43 PM	67031
Surr: BFB	95.6	37.7-212		%Rec	1	4/25/2022 9:58:43 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/25/2022 9:58:43 PM	67031
Toluene	ND	0.049		mg/Kg	1	4/25/2022 9:58:43 PM	67031
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 9:58:43 PM	67031
Xylenes, Total	ND	0.098		mg/Kg	1	4/25/2022 9:58:43 PM	67031
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/25/2022 9:58:43 PM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-13A

Project: Gerard AW Battery

Collection Date: 4/21/2022 1:10:00 PM

Lab ID: 2204A29-008

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	930	60		mg/Kg	20	4/25/2022 9:32:28 PM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/26/2022 12:38:06 PM	67035
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/26/2022 12:38:06 PM	67035
Surr: DNOP	87.7	51.1-141		%Rec	1	4/26/2022 12:38:06 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/25/2022 10:22:12 PM	67031
Surr: BFB	98.5	37.7-212		%Rec	1	4/25/2022 10:22:12 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/25/2022 10:22:12 PM	67031
Toluene	ND	0.050		mg/Kg	1	4/25/2022 10:22:12 PM	67031
Ethylbenzene	ND	0.050		mg/Kg	1	4/25/2022 10:22:12 PM	67031
Xylenes, Total	ND	0.10		mg/Kg	1	4/25/2022 10:22:12 PM	67031
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/25/2022 10:22:12 PM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-32

Project: Gerard AW Battery

Collection Date: 4/21/2022 1:20:00 PM

Lab ID: 2204A29-009

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4800	150		mg/Kg	50	4/26/2022 11:06:53 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	1300	96		mg/Kg	10	4/26/2022 12:48:58 PM	67035
Motor Oil Range Organics (MRO)	640	480		mg/Kg	10	4/26/2022 12:48:58 PM	67035
Surr: DNOP	0	51.1-141	S	%Rec	10	4/26/2022 12:48:58 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	8.0	5.0		mg/Kg	1	4/25/2022 10:45:47 PM	67031
Surr: BFB	173	37.7-212		%Rec	1	4/25/2022 10:45:47 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/25/2022 10:45:47 PM	67031
Toluene	ND	0.050		mg/Kg	1	4/25/2022 10:45:47 PM	67031
Ethylbenzene	ND	0.050		mg/Kg	1	4/25/2022 10:45:47 PM	67031
Xylenes, Total	ND	0.099		mg/Kg	1	4/25/2022 10:45:47 PM	67031
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	4/25/2022 10:45:47 PM	67031

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

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

Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-33

Project: Gerard AW Battery

Collection Date: 4/21/2022 1:30:00 PM

Lab ID: 2204A29-010

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3200	150		mg/Kg	50	4/26/2022 11:19:14 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	13	9.7		mg/Kg	1	4/26/2022 12:59:50 PM	67035
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/26/2022 12:59:50 PM	67035
Surr: DNOP	101	51.1-141		%Rec	1	4/26/2022 12:59:50 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 11:09:28 PM	67031
Surr: BFB	95.4	37.7-212		%Rec	1	4/25/2022 11:09:28 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/25/2022 11:09:28 PM	67031
Toluene	ND	0.049		mg/Kg	1	4/25/2022 11:09:28 PM	67031
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 11:09:28 PM	67031
Xylenes, Total	ND	0.099		mg/Kg	1	4/25/2022 11:09:28 PM	67031
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/25/2022 11:09:28 PM	67031

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

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

Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-34

Project: Gerard AW Battery

Collection Date: 4/21/2022 1:40:00 PM

Lab ID: 2204A29-011

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2000	60		mg/Kg	20	4/25/2022 10:58:53 PM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/26/2022 1:21:25 PM	67035
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/26/2022 1:21:25 PM	67035
Surr: DNOP	86.5	51.1-141		%Rec	1	4/26/2022 1:21:25 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/25/2022 11:56:44 PM	67031
Surr: BFB	99.0	37.7-212		%Rec	1	4/25/2022 11:56:44 PM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/25/2022 11:56:44 PM	67031
Toluene	ND	0.050		mg/Kg	1	4/25/2022 11:56:44 PM	67031
Ethylbenzene	ND	0.050		mg/Kg	1	4/25/2022 11:56:44 PM	67031
Xylenes, Total	ND	0.10		mg/Kg	1	4/25/2022 11:56:44 PM	67031
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/25/2022 11:56:44 PM	67031

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

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

Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-35

Project: Gerard AW Battery

Collection Date: 4/21/2022 1:50:00 PM

Lab ID: 2204A29-012

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	4/25/2022 11:11:14 PM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/26/2022 1:32:12 PM	67035
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2022 1:32:12 PM	67035
Surr: DNOP	87.8	51.1-141		%Rec	1	4/26/2022 1:32:12 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/26/2022 12:20:21 AM	67031
Surr: BFB	97.2	37.7-212		%Rec	1	4/26/2022 12:20:21 AM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/26/2022 12:20:21 AM	67031
Toluene	ND	0.049		mg/Kg	1	4/26/2022 12:20:21 AM	67031
Ethylbenzene	ND	0.049		mg/Kg	1	4/26/2022 12:20:21 AM	67031
Xylenes, Total	ND	0.098		mg/Kg	1	4/26/2022 12:20:21 AM	67031
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	4/26/2022 12:20:21 AM	67031

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

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

Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-36

Project: Gerard AW Battery

Collection Date: 4/21/2022 2:00:00 PM

Lab ID: 2204A29-013

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2100	60		mg/Kg	20	4/25/2022 11:23:34 PM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/26/2022 1:43:04 PM	67035
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2022 1:43:04 PM	67035
Surr: DNOP	89.1	51.1-141		%Rec	1	4/26/2022 1:43:04 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/26/2022 12:43:58 AM	67031
Surr: BFB	96.1	37.7-212		%Rec	1	4/26/2022 12:43:58 AM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/26/2022 12:43:58 AM	67031
Toluene	ND	0.049		mg/Kg	1	4/26/2022 12:43:58 AM	67031
Ethylbenzene	ND	0.049		mg/Kg	1	4/26/2022 12:43:58 AM	67031
Xylenes, Total	ND	0.097		mg/Kg	1	4/26/2022 12:43:58 AM	67031
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	4/26/2022 12:43:58 AM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-37

Project: Gerard AW Battery

Collection Date: 4/21/2022 2:10:00 PM

Lab ID: 2204A29-014

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6600	300		mg/Kg	100	4/26/2022 11:31:35 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	310	9.7		mg/Kg	1	4/26/2022 1:54:01 PM	67035
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	4/26/2022 1:54:01 PM	67035
Surr: DNOP	91.1	51.1-141		%Rec	1	4/26/2022 1:54:01 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/25/2022 11:23:37 AM	67031
Surr: BFB	101	37.7-212		%Rec	5	4/25/2022 11:23:37 AM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	4/25/2022 11:23:37 AM	67031
Toluene	ND	0.25		mg/Kg	5	4/25/2022 11:23:37 AM	67031
Ethylbenzene	ND	0.25		mg/Kg	5	4/25/2022 11:23:37 AM	67031
Xylenes, Total	ND	0.50		mg/Kg	5	4/25/2022 11:23:37 AM	67031
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	4/25/2022 11:23:37 AM	67031

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

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

Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-38

Project: Gerard AW Battery

Collection Date: 4/21/2022 2:20:00 PM

Lab ID: 2204A29-015

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5000	150		mg/Kg	50	4/26/2022 11:43:56 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	510	49		mg/Kg	5	4/26/2022 4:31:09 PM	67035
Motor Oil Range Organics (MRO)	470	240		mg/Kg	5	4/26/2022 4:31:09 PM	67035
Surr: DNOP	119	51.1-141		%Rec	5	4/26/2022 4:31:09 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/26/2022 1:07:32 AM	67031
Surr: BFB	96.8	37.7-212		%Rec	1	4/26/2022 1:07:32 AM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/26/2022 1:07:32 AM	67031
Toluene	ND	0.049		mg/Kg	1	4/26/2022 1:07:32 AM	67031
Ethylbenzene	ND	0.049		mg/Kg	1	4/26/2022 1:07:32 AM	67031
Xylenes, Total	ND	0.099		mg/Kg	1	4/26/2022 1:07:32 AM	67031
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	4/26/2022 1:07:32 AM	67031

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

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

Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-39

Project: Gerard AW Battery

Collection Date: 4/21/2022 2:30:00 PM

Lab ID: 2204A29-016

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4100	150		mg/Kg	50	4/26/2022 11:56:17 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/26/2022 2:15:57 PM	67035
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2022 2:15:57 PM	67035
Surr: DNOP	86.8	51.1-141		%Rec	1	4/26/2022 2:15:57 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/26/2022 1:31:04 AM	67031
Surr: BFB	96.4	37.7-212		%Rec	1	4/26/2022 1:31:04 AM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/26/2022 1:31:04 AM	67031
Toluene	ND	0.048		mg/Kg	1	4/26/2022 1:31:04 AM	67031
Ethylbenzene	ND	0.048		mg/Kg	1	4/26/2022 1:31:04 AM	67031
Xylenes, Total	ND	0.097		mg/Kg	1	4/26/2022 1:31:04 AM	67031
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/26/2022 1:31:04 AM	67031

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

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

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Analytical Report

Lab Order 2204A29

Date Reported: 5/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-40

Project: Gerard AW Battery

Collection Date: 4/21/2022 2:40:00 PM

Lab ID: 2204A29-017

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	4100	150		mg/Kg	50	5/3/2022 8:31:12 AM	67054
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/26/2022 2:26:53 PM	67035
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/26/2022 2:26:53 PM	67035
Surr: DNOP	90.1	51.1-141		%Rec	1	4/26/2022 2:26:53 PM	67035
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/26/2022 1:54:43 AM	67031
Surr: BFB	95.4	37.7-212		%Rec	1	4/26/2022 1:54:43 AM	67031
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/26/2022 1:54:43 AM	67031
Toluene	ND	0.050		mg/Kg	1	4/26/2022 1:54:43 AM	67031
Ethylbenzene	ND	0.050		mg/Kg	1	4/26/2022 1:54:43 AM	67031
Xylenes, Total	ND	0.099		mg/Kg	1	4/26/2022 1:54:43 AM	67031
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	4/26/2022 1:54:43 AM	67031

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204A29

05-May-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: MB-67054	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67054	RunNo: 87477								
Prep Date: 4/25/2022	Analysis Date: 4/25/2022	SeqNo: 3096816	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67054	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67054	RunNo: 87477								
Prep Date: 4/25/2022	Analysis Date: 4/25/2022	SeqNo: 3096817	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Qualifiers:

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

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

WO#: 2204A29

05-May-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: LCS-67035	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67035		RunNo: 87511							
Prep Date: 4/25/2022	Analysis Date: 4/26/2022		SeqNo: 3096732		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.1	68.9	135			
Surr: DNOP	3.8		5.000		75.5	51.1	141			

Sample ID: MB-67035	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67035		RunNo: 87511							
Prep Date: 4/25/2022	Analysis Date: 4/26/2022		SeqNo: 3096733		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		82.8	51.1	141			

Qualifiers:

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

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

WO#: 2204A29

05-May-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-67031	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67031	RunNo: 87480								
Prep Date: 4/23/2022	Analysis Date: 4/25/2022	SeqNo: 3095493			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.5	37.7	212			

Sample ID: lcs-67031	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67031	RunNo: 87480								
Prep Date: 4/23/2022	Analysis Date: 4/25/2022	SeqNo: 3095494			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: 2204a29-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-29A	Batch ID: 67031	RunNo: 87480								
Prep Date: 4/23/2022	Analysis Date: 4/25/2022	SeqNo: 3095496			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	25	24.61	0	107	70	130			
Surr: BFB	6300		4921		127	37.7	212			

Sample ID: 2204a29-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-29A	Batch ID: 67031	RunNo: 87480								
Prep Date: 4/23/2022	Analysis Date: 4/25/2022	SeqNo: 3095497			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	24	24.49	0	111	70	130	3.54	20	
Surr: BFB	6100		4897		124	37.7	212	0	0	

Qualifiers:

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

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

WO#: 2204A29

05-May-22

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: mb-67031	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67031		RunNo: 87480							
Prep Date: 4/23/2022	Analysis Date: 4/25/2022		SeqNo: 3095536		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

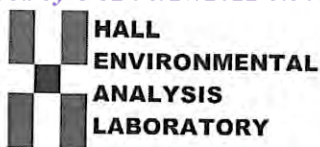
Sample ID: LCS-67031	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67031		RunNo: 87480							
Prep Date: 4/23/2022	Analysis Date: 4/25/2022		SeqNo: 3095537		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.9	80	120			
Toluene	0.90	0.050	1.000	0	89.9	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: 2204a29-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-56	Batch ID: 67031		RunNo: 87480							
Prep Date: 4/23/2022	Analysis Date: 4/25/2022		SeqNo: 3095540		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9852	0	89.6	68.8	120			
Toluene	0.97	0.049	0.9852	0	98.4	73.6	124			
Ethylbenzene	1.0	0.049	0.9852	0.01317	101	72.7	129			
Xylenes, Total	3.0	0.099	2.956	0.03493	102	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9852		104	70	130			

Sample ID: 2204a29-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-56	Batch ID: 67031		RunNo: 87480							
Prep Date: 4/23/2022	Analysis Date: 4/25/2022		SeqNo: 3095541		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9785	0	85.5	68.8	120	5.40	20	
Toluene	0.91	0.049	0.9785	0	92.9	73.6	124	6.42	20	
Ethylbenzene	0.94	0.049	0.9785	0.01317	94.6	72.7	129	7.42	20	
Xylenes, Total	2.8	0.098	2.935	0.03493	94.6	75.7	126	7.80	20	
Surr: 4-Bromofluorobenzene	1.0		0.9785		105	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2204A29

RcptNo: 1

Received By: Juan Rojas

4/23/2022 8:25:00 AM

Juan Rojas

Completed By: Juan Rojas

4/23/2022 8:50:04 AM

*Juan Rojas*Reviewed By: *04/23/2022*

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: *juan/23/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: _____

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				
2	1.3	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address: 2135 S. Loop 250 W.

Midland, TX 79703

Phone #: 932-686-0086

email or Fax#: Tom. Larson @ GHD.COM

QA/QC Package:

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

Turn-Around Time:

☐ Standard ☒ Rush 24hr

Project Name:

Gerard AW Battery

Project #:

11228976

Project Manager:

Becky. Haslun @ GHD.COM

Sampler: Heath. Boyd @ GHD.COM

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.9-0.8-0.7 (°C)

Container Type and #

Preservative Type

HEAL No.

4oz Jar / 1 N/A

-001

-002

-003

-004

-005

-006

-007

-008

-009

-010

-011

-012

X

X

X

X

X

X

X

X

X

X

Date: 4/21/21

Time: 1200

Matrix: S

Sample Name: BH-29A

Date: 4/21/21

Time: 1210

Matrix: S

Sample Name: BH-56

Date: 4/21/21

Time: 1220

Matrix: S

Sample Name: BH-57

Date: 4/21/21

Time: 1230

Matrix: S

Sample Name: BH-58

Date: 4/21/21

Time: 1240

Matrix: S

Sample Name: BH-59

Date: 4/21/21

Time: 1250

Matrix: S

Sample Name: BH-60

Date: 4/21/21

Time: 1300

Matrix: S

Sample Name: SW-12A

Date: 4/21/21

Time: 1310

Matrix: S

Sample Name: SW-13A

Date: 4/21/21

Time: 1320

Matrix: S

Sample Name: SW-32

Date: 4/21/21

Time: 1330

Matrix: S

Sample Name: SW-33

Date: 4/21/21

Time: 1340

Matrix: S

Sample Name: SW-34

Date: 4/21/21

Time: 1350

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1400

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1410

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1420

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1430

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1440

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1450

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1500

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1510

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1520

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1530

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1540

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1550

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1600

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1610

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1620

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1630

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1640

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1650

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1700

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1710

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1720

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1730

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1740

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1750

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1800

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1810

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1820

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1830

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1840

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1850

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1900

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1910

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1920

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1930

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1940

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 1950

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2000

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2010

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2020

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2030

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2040

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2050

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2100

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2110

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2120

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2130

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2140

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2150

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2200

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2210

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2220

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2230

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2240

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2250

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2300

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2310

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2320

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2330

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2340

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2350

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2400

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2410

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2420

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2430

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2440

Matrix: S

Sample Name: SW-35

Date: 4/21/21

Time: 2450

Chain-of-Custody Record

Client: GHD

Mailing Address: 2135 S. Loop 250 W.

Midland, Tx 79703

Phone #: 432-686-0086

email or Fax#: Tom. Larson @ GHD.com

QA/QC Package:

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

Turn-Around Time:

☐ Standard ☒ Rush 24 hr

Project Name:

Gerard AW Battery

Project #:

11228976

Project Manager:

Becky. Haskel @ GHD.com

Sampler: Heath. Boyd @ GHD.com

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 6.9-0-0.9 (°C)

1.3-0-1.3

HEAL No.

770VIA29

-013

-014

-015

-016

-017

Container

Type and #

4oz. Jar/1

N/A

/

/

/

x

Preservative

Type

N/A

/

/

/

x

TPH:8015D(GRO / DRO / MRO)

BTX / MTBE / TMB's (8021)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride 300 M

Date: 4/22

Time: 1800

Relinquished by:

[Signature]

Received by:

[Signature]

Date: 4/22/22

Time: 1800

Via:

[Signature]

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

Amber_Griffith@eogresources.com

Chase_Suttle@eogresources.com

Zach_Camino@eogresources.com

Direct Bill to: EOG Attn to "Chase"

Date: 4/22

Time: 1900

Relinquished by:

[Signature]

Received by:

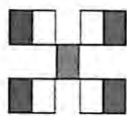
[Signature]

Date: 4/22/22

Time: 1900

Via:

[Signature]

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 16, 2022

BECKY HASKELL

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: GERARD AW BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/10/22 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 6A	H221985-01	Soil	10-May-22 10:45	10-May-22 16:15
BH - 62	H221985-02	Soil	10-May-22 10:50	10-May-22 16:15
SW - 4 B	H221985-03	Soil	10-May-22 11:00	10-May-22 16:15
BH - 61	H221985-04	Soil	10-May-22 11:05	10-May-22 16:15
BH - 60A	H221985-05	Soil	10-May-22 11:20	10-May-22 16:15
SW - 41	H221985-06	Soil	10-May-22 11:25	10-May-22 16:15

05/16/22 - Client changed the sample ID for -03. This is the revised report and will replace the one sent on 05/ 11/22.

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

SW - 6A
H221985-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2051120	GM	11-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051023	MS/	11-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2051023 MS/ 11-May-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	
DRO >C10-C28*	19.0		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	
EXT DRO >C28-C36	14.2		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	

Surrogate: 1-Chlorooctane 101 % 66.9-136 2051018 MS/ 11-May-22 8015B

Surrogate: 1-Chlorooctadecane 102 % 59.5-142 2051018 MS/ 11-May-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

BH - 62
H221985-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1550		16.0	mg/kg	4	2051120	GM	11-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051023	MS/	11-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2051023 MS/ 11-May-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	

Surrogate: 1-Chlorooctane 121 % 66.9-136 2051018 MS 11-May-22 8015B

Surrogate: 1-Chlorooctadecane 120 % 59.5-142 2051018 MS 11-May-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

SW - 4 B
H221985-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	2051120	GM	11-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2051023	MS/	11-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	100 %	69.9-140	2051023	MS/	11-May-22	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2051018	MS	11-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2051018	MS	11-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2051018	MS	11-May-22	8015B

Surrogate: 1-Chlorooctane	110 %	66.9-136	2051018	MS	11-May-22	8015B
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Surrogate: 1-Chlorooctadecane	110 %	59.5-142	2051018	MS	11-May-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

BH - 61
H221985-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	2051120	GM	11-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051023	MS/	11-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.9 %		69.9-140	2051023	MS/	11-May-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	
DRO >C10-C28*	112		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	
EXT DRO >C28-C36	94.9		10.0	mg/kg	1	2051018	MS	11-May-22	8015B	

Surrogate: 1-Chlorooctane			112 %		66.9-136	2051018	MS	11-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			120 %		59.5-142	2051018	MS	11-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

BH - 60A
H221985-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	8000		16.0	mg/kg	4	2051120	GM	11-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2051023	MS/	11-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.6 %	69.9-140	2051023	MS/	11-May-22	8021B
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2051018	MS	11-May-22	8015B
DRO >C10-C28*	1880	10.0	mg/kg	1	2051018	MS	11-May-22	8015B
EXT DRO >C28-C36	432	10.0	mg/kg	1	2051018	MS	11-May-22	8015B

Surrogate: 1-Chlorooctane	134 %	66.9-136	2051018	MS	11-May-22	8015B
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Surrogate: 1-Chlorooctadecane	268 %	59.5-142	2051018	MS	11-May-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

SW - 41
H221985-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	8080		16.0	mg/kg	4	2051120	GM	11-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2051023	MS/	11-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2051023	MS/	11-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	100 %	69.9-140	2051023	MS/	11-May-22	8021B
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2051018	MS	11-May-22	8015B
DRO >C10-C28*	420	10.0	mg/kg	1	2051018	MS	11-May-22	8015B
EXT DRO >C28-C36	100	10.0	mg/kg	1	2051018	MS	11-May-22	8015B

Surrogate: 1-Chlorooctane	147 %	66.9-136	2051018	MS	11-May-22	8015B
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Surrogate: 1-Chlorooctadecane	154 %	59.5-142	2051018	MS	11-May-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2051120 - 1:4 DI Water									
Blank (2051120-BLK1)					Prepared & Analyzed: 11-May-22				
Chloride	ND	16.0	mg/kg						
LCS (2051120-BS1)					Prepared & Analyzed: 11-May-22				
Chloride	416	16.0	mg/kg	400	104	80-120			
LCS Dup (2051120-BSD1)					Prepared & Analyzed: 11-May-22				
Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2051023 - Volatiles**Blank (2051023-BLK1)**

Prepared: 10-May-22 Analyzed: 11-May-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		100	69.9-140			

LCS (2051023-BS1)

Prepared: 10-May-22 Analyzed: 11-May-22

Benzene	2.06	0.050	mg/kg	2.00		103	83.4-122			
Toluene	2.04	0.050	mg/kg	2.00		102	84.2-126			
Ethylbenzene	1.92	0.050	mg/kg	2.00		96.2	84.2-121			
m,p-Xylene	4.06	0.100	mg/kg	4.00		101	89.9-126			
o-Xylene	1.95	0.050	mg/kg	2.00		97.7	84.3-123			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.5	69.9-140			

LCS Dup (2051023-BS1)

Prepared: 10-May-22 Analyzed: 11-May-22

Benzene	1.94	0.050	mg/kg	2.00		96.8	83.4-122	6.05	12.6	
Toluene	1.90	0.050	mg/kg	2.00		95.1	84.2-126	6.92	13.3	
Ethylbenzene	1.80	0.050	mg/kg	2.00		90.1	84.2-121	6.50	13.9	
m,p-Xylene	3.83	0.100	mg/kg	4.00		95.7	89.9-126	5.81	13.6	
o-Xylene	1.84	0.050	mg/kg	2.00		92.2	84.3-123	5.78	14.1	
Total Xylenes	5.67	0.150	mg/kg	6.00		94.5	89.1-124	5.80	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0485		mg/kg	0.0500		96.9	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:13

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051018 - General Prep - Organics**Blank (2051018-BLK1)**

Prepared & Analyzed: 10-May-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	66.9-136			
Surrogate: 1-Chlorooctadecane	51.0		mg/kg	50.0		102	59.5-142			

LCS (2051018-BS1)

Prepared & Analyzed: 10-May-22

GRO C6-C10	210	10.0	mg/kg	200		105	78.5-128			
DRO >C10-C28	200	10.0	mg/kg	200		100	75.8-135			
Total TPH C6-C28	410	10.0	mg/kg	400		103	81.5-127			
Surrogate: 1-Chlorooctane	61.6		mg/kg	50.0		123	66.9-136			
Surrogate: 1-Chlorooctadecane	62.3		mg/kg	50.0		125	59.5-142			

LCS Dup (2051018-BS1)

Prepared & Analyzed: 10-May-22

GRO C6-C10	205	10.0	mg/kg	200		102	78.5-128	2.69	21.4	
DRO >C10-C28	192	10.0	mg/kg	200		95.8	75.8-135	4.29	17.9	
Total TPH C6-C28	396	10.0	mg/kg	400		99.1	81.5-127	3.47	17.6	
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	66.9-136			
Surrogate: 1-Chlorooctadecane	56.2		mg/kg	50.0		112	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 17, 2022

BECKY HASKELL

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: GERARD AW BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/16/22 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 05/16/2022
 Reported: 05/17/2022
 Project Name: GERARD AW BATTERY
 Project Number: 11228976
 Project Location: EOG - ARTESIA, NM

Sampling Date: 05/16/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: BH - 60 B (H222074-01)

BTX 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	1.95	97.3	2.00	6.35		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.2	2.00	6.03		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.83	91.7	2.00	6.75		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.70	95.0	6.00	6.84		
Total BTX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	05/17/2022	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.0	200	0.297		
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	198	99.2	200	3.37		
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND						

Surrogate: 1-Chlorooctane 82.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 05/16/2022
 Reported: 05/17/2022
 Project Name: GERARD AW BATTERY
 Project Number: 11228976
 Project Location: EOG - ARTESIA, NM

Sampling Date: 05/16/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW - 42 (H222074-02)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	1.95	97.3	2.00	6.35		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.2	2.00	6.03		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.83	91.7	2.00	6.75		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.70	95.0	6.00	6.84		
Total BTX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	05/17/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.0	200	0.297	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	198	99.2	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 05/16/2022
 Reported: 05/17/2022
 Project Name: GERARD AW BATTERY
 Project Number: 11228976
 Project Location: EOG - ARTESIA, NM

Sampling Date: 05/16/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW - 43 (H222074-03)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	1.95	97.3	2.00	6.35		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.2	2.00	6.03		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.83	91.7	2.00	6.75		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.70	95.0	6.00	6.84		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	05/17/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.0	200	0.297	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	198	99.2	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
 BECKY HASKELL
 6121 INDIAN SCHOOL RD, NE STE. 200
 ALBUQUERQUE NM, 87110
 Fax To:

Received: 05/16/2022
 Reported: 05/17/2022
 Project Name: GERARD AW BATTERY
 Project Number: 11228976
 Project Location: EOG - ARTESIA, NM

Sampling Date: 05/16/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW - 44 (H222074-04)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	1.95	97.3	2.00	6.35	
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.2	2.00	6.03	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.83	91.7	2.00	6.75	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.70	95.0	6.00	6.84	
Total BTX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	05/17/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.0	200	0.297	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	198	99.2	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 25, 2022

BECKY HASKELL

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: GERARD AW BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/20/22 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
25-May-22 09:06

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 32 A	H222167-01	Soil	20-May-22 10:50	20-May-22 14:30
BH - 63	H222167-02	Soil	20-May-22 11:00	20-May-22 14:30
BH - 64	H222167-03	Soil	20-May-22 11:10	20-May-22 14:30

05/25/22 - Client changed the project name and number 05/24/22. This is the revised report and will replace the one sent on 05/23/22.

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
25-May-22 09:06

SW - 32 A
H222167-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1620		16.0	mg/kg	4	2052112	GM	21-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2052030	MS/	21-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2052030	MS/	21-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2052030 MS/ 21-May-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052034	MS	21-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052034	MS	21-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052034	MS	21-May-22	8015B	

Surrogate: 1-Chlorooctane 77.0 % 66.9-136 2052034 MS 21-May-22 8015B

Surrogate: 1-Chlorooctadecane 80.4 % 59.5-142 2052034 MS 21-May-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
25-May-22 09:06

BH - 63
H222167-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	17600		16.0	mg/kg	4	2052112	GM	21-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2052030	MS/	21-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2052030	MS/	21-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	69.9-140	2052030	MS/	21-May-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2052034	MS	21-May-22	8015B	
DRO >C10-C28*	90.4	10.0	mg/kg	1	2052034	MS	21-May-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2052034	MS	21-May-22	8015B	

Surrogate: 1-Chlorooctane	70.9 %	66.9-136	2052034	MS	21-May-22	8015B	
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Surrogate: 1-Chlorooctadecane	71.6 %	59.5-142	2052034	MS	21-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
25-May-22 09:06

BH - 64
H222167-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6880		16.0	mg/kg	4	2052112	GM	21-May-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2052030	MS/	21-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2052030	MS/	21-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2052030	MS/	21-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2052030	MS/	21-May-22	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2052034	MS	23-May-22	8015B	
DRO >C10-C28*	121		10.0	mg/kg	1	2052034	MS	23-May-22	8015B	
EXT DRO >C28-C36	13.6		10.0	mg/kg	1	2052034	MS	23-May-22	8015B	

Surrogate: 1-Chlorooctane			71.9 %	66.9-136		2052034	MS	23-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			80.1 %	59.5-142		2052034	MS	23-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
25-May-22 09:06

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2052112 - 1:4 DI Water									
Blank (2052112-BLK1)					Prepared & Analyzed: 21-May-22				
Chloride	ND	16.0	mg/kg						
LCS (2052112-BS1)					Prepared & Analyzed: 21-May-22				
Chloride	416	16.0	mg/kg	400	104	80-120			
LCS Dup (2052112-BSD1)					Prepared & Analyzed: 21-May-22				
Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
25-May-22 09:06

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2052030 - Volatiles**Blank (2052030-BLK1)**

Prepared: 20-May-22 Analyzed: 21-May-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	69.9-140			

LCS (2052030-BS1)

Prepared: 20-May-22 Analyzed: 21-May-22

Benzene	1.93	0.050	mg/kg	2.00		96.7	83.4-122			
Toluene	1.92	0.050	mg/kg	2.00		96.1	84.2-126			
Ethylbenzene	1.82	0.050	mg/kg	2.00		90.8	84.2-121			
m,p-Xylene	3.83	0.100	mg/kg	4.00		95.7	89.9-126			
o-Xylene	1.80	0.050	mg/kg	2.00		90.0	84.3-123			
Total Xylenes	5.63	0.150	mg/kg	6.00		93.8	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.5	69.9-140			

LCS Dup (2052030-BSD1)

Prepared: 20-May-22 Analyzed: 21-May-22

Benzene	2.15	0.050	mg/kg	2.00		107	83.4-122	10.4	12.6	
Toluene	2.12	0.050	mg/kg	2.00		106	84.2-126	9.74	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.2-121	10.8	13.9	
m,p-Xylene	4.25	0.100	mg/kg	4.00		106	89.9-126	10.4	13.6	
o-Xylene	2.04	0.050	mg/kg	2.00		102	84.3-123	12.5	14.1	
Total Xylenes	6.29	0.150	mg/kg	6.00		105	89.1-124	11.1	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.2	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: GERARD AW BATTERY
Project Number: 11228976
Project Manager: BECKY HASKELL
Fax To:

Reported:
25-May-22 09:06

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2052034 - General Prep - Organics**Blank (2052034-BLK1)**

Prepared: 20-May-22 Analyzed: 21-May-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.1		mg/kg	50.0		78.2	66.9-136			
Surrogate: 1-Chlorooctadecane	40.2		mg/kg	50.0		80.4	59.5-142			

LCS (2052034-BS1)

Prepared: 20-May-22 Analyzed: 21-May-22

GRO C6-C10	206	10.0	mg/kg	200		103	78.5-128			
DRO >C10-C28	210	10.0	mg/kg	200		105	75.8-135			
Total TPH C6-C28	416	10.0	mg/kg	400		104	81.5-127			
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	66.9-136			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.1	59.5-142			

LCS Dup (2052034-BS1)

Prepared: 20-May-22 Analyzed: 21-May-22

GRO C6-C10	224	10.0	mg/kg	200		112	78.5-128	8.62	21.4	
DRO >C10-C28	200	10.0	mg/kg	200		100	75.8-135	4.49	17.9	
Total TPH C6-C28	425	10.0	mg/kg	400		106	81.5-127	2.22	17.6	
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.5	66.9-136			
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.5	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager






Company Name: GHD

Company Name: GHD						BILL TO						ANALYSIS REQUEST							
Project Manager: Becky Haskell@GHD.com						P.O. #:													
Address: 2135 S. Loop 250 W.						Company: EOG													
City: Midland State: TX Zip: 79703						Attn: Chase - Swithe@EOG-													
Phone #: 432-676-0086 Fax #:						Address:													
Project #: 1122898076 * Project Owner: EOG						City:													
Project Name: Hornbacher BA Battery Gerard Ave *						State: Zip:													
Project Location: Artesia, NM Battery						Phone #:													
Sampler Name: Heath Boyd@GHD.com						Fax #:													
CASH INC						CASH INC													

[illegible]

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affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any or the above stated reasons of collection.			
Reinquisitioned By: 	Date: 5/20	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: 11 Beely, Chase, #601 All Results are emailed. Please provide Email address: Zach.Lemino@CMT.com, Tom.Larson@GHD.com Amber.Griffin@ecosresources.com *PO, ref name & # change
	Time: 1430		
	Date:		
	Time:		
Reinquisitioned By:		Received By: 	REMARKS: PUSH 11 24 HR. 24.5
Delivered By: (Circle One)	Observed Temp. °C: 23.3	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) 
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 22.8	Thermometer ID #113 Correction Factor -0.5°C	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Observed Temp. °C Corrected Temp. °C

FORM-000 R-3.2 10/07/21

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 111537

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 111537
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/1/2022