

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	nAPP2111230058
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD) nAPP2111230058
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.71795 Longitude -104.43988
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Yates AS Fee Battery	Site Type Battery
Date Release Discovered 04/16/2021	API# (if applicable)

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

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

Nature and Volume of Release

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

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

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

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

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Chase Settle</u>	Title: <u>Rep Safety & Environmental Sr</u>
Signature: <u></u>	Date: <u>04/21/2021</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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

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

Printed Name: Chase SettleTitle: Rep Safety & Environmental SrSignature: Date: 09/30/2021email: Chase_Settle@eogresources.comTelephone: 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:  Date: 09/30/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	nAPP2111230058
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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: Amber Griffin Title: Rep Safety & Environmental Sr
Signature: Amber Griffin Date: 5/27/2022
email: Amber_Griffin@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: _____ Date: _____

Printed Name: _____ Title: _____

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

GHD reference: 11228401

May 26, 2022

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

Re: **Site Closure Report**
Yates AS Fee Battery Release Site
EOG Resources Inc.
Incident ID: nAPP2111230058
K-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, remedial activities, and analyses in the affected area at the EOG Yates AS Fee Battery Release Site (Site). The Site is located in Unit Letter K Section 25 of Township 18 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.71795 N latitude and 104.43988 W longitude. The release occurred on private surface land. Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figures 2 and 3.

2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on April 21, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to file a C-141 for this suspect release location.

A Site Characterization and Remediation Work Plan dated September 27, 2021 was submitted to the NMOCD for consideration. The NMOCD approved the work plan on February 16, 2022. Remediation analytical results were still pending with the lab on May 17, 2022 and EOG submitted a Site Remediation Update Report dated May 17, 2022 to the NMOCD. The Release Notification, Site Assessment/Characterization, Remediation Plan Closure portions of Form C-141 for Incident Number nAPP2111230058 are attached to the front of this report.

3. Groundwater and Site Characterization

GHD characterized the Site according to Table I Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico.

A review of the Office of the State Engineer (OSE) Point of Diversion (POD) Locations Website revealed a water well located approximately 0.31 miles to the south of the Site with a depth to groundwater of 194 feet below ground surface (ft bgs). The water well was installed on November 7, 2017 through November 13, 2017, and was assigned POD Number RA 12548 POD1. The water well is located at GPS coordinates, 32.713077 N latitude and 104.439977 W longitude. Depth to groundwater for this Site is greater than one hundred (100) feet below ground surface. No other receptors (karst potential areas, water wells, 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) ft in Table I in NMAC 19.15.29.12. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion, Point of Diversion Summary for RA 12548 POD1 and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
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 May 19, 2021, GHD and EOG's contractor BDS Enterprises, LLC (BDS), on behalf of EOG, installed seventeen (17) test pits within the suspected impacted area. Soil samples were collected from two (2) to fourteen (14) feet below ground surface. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated none of the soil samples exhibited benzene, BTEX, TPH or chloride concentrations above Table I Closure Criteria. Depth to groundwater was unknown during this phase of investigation.

On July 6 through July 8, 2021, GHD and EOG contractor Culberson Construction Energy Services (CCI), returned to the site to extend test pits TP-1 through TP-6, TP-8, TP-10 through TP-12, TP-14 and TP-16

deeper and installed an additional six (6) new test pits, TP-18 through TP-23. Soil samples were collected at varying depths and were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated only one sample; TP-2-20 exhibited GRO plus DRO TPH concentrations above Table I closure criteria with a concentration of 1,293 mg/kg.

Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment D.

5. Completed Remedial Activities to Date

From March 8 through March 22, 2022, GHD oversaw remedial excavation activities at the Site by Standard Safety and Supply (SS). Soils within the first four (4) feet containing TPH and chloride exceedances of Table I closure criteria for 19.15.29.13 for restoration were excavated. The area around TP-2 was excavated to a depth of approximately twenty (22) feet below grade. During excavation activities soil staining was observed in the south-eastern portion of the excavation; therefore, a test pit (TP24) was installed to a depth of approximately twenty (20) ft bgs, samples were collected at varying depths. Seven (7) test pits, one hundred twenty-three (123) composite confirmation bottom hole samples, and twenty-five (25) composite confirmation sidewall samples were collected and submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated twenty (20) samples with TPH exceedances above Table I closure criteria for depth to water greater than one hundred (100) feet; TP24-8, TP24-10, TP24-12, TP24-16, BH-40, BH-47, BH-48, BH-49, BH-54, BH-72, BH-73, BH-77, BH-95, BH-113, BH-121, BH-123, SW-18, SW-19, SW-24, and SW-25. Five (5) samples exhibited TPH or chloride concentrations above Table I closure criteria for 19.15.29.13 for restoration in the top four (4) feet of the excavation; SW-10, SW-11, SW-13, SW-14, and SW-17.

Due to the exceedances listed above, GHD and SS returned to the Site on March 30, 2022, to further excavate select areas. The area around BH-40, BH-47, BH-48, BH-49, and BH-54, was excavated to approximately twenty-one (21) feet below grade. The area around BH-72, BH-73, and BH-77 was excavated to approximately twelve (12) to fifteen (15) feet below grade. Fifteen (15) bottom hole composite confirmation samples (BHX-1 through BHX-15) and twenty-five (25) sidewall composite confirmation samples (SW-10 and SWX-1 through SWX-24) were collected on March 30 and March 31, 2022, and submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated six (6) confirmation samples with TPH exceedances above Table I closure criteria: BHX-2, BHX-3, BHX-11, BHX-14, BHX-15 and SWX-24. One (1) confirmation sample exhibited TPH concentrations above Table I closure criteria for 19.15.29.13 for restoration within the top four (4) feet of the excavation; SW-10 (resample of original SW-10 wall location after further excavation).

Due to the exceedances listed above, GHD and SS returned to the Site on April 25, 2022, to further excavate select areas with TPH concentrations in exceedance of Table I closure criteria. Between April 25 and May 5, 2022, ten (10) bottom hole confirmation samples and twenty-four (24) sidewall composite confirmation samples were collected and submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Any time analytical results indicated a TPH concentration in exceedance of Table I closure criteria, that area was excavated further and resampled. A portion of the final confirmation samples were submitted to Cardinal Laboratories in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA

Method 300. Final excavation depths ranged from four (4) to twenty-five (25) feet below grade. Analytical results of final composite confirmation samples indicated no exceedances above Table I closure criteria except for BHX-14 (4/27/22, resample of original BHX-14 collected on 3/31/22 after further excavation) and SW-11A.

On May 9, 2022, SS mobilized a hammer hoe to the site to further excavate the area represented by BHX-14A due to a hard rock layer being present at twenty-five (25) feet below grade preventing further excavation utilizing a track hoe. SS excavated the area represented by BHX-14 (4/27/22) an additional two feet below ground surface and further excavated the area represented by SW-11A. GHD returned to the site on May 12, 2022, to collect additional samples in the area represented by BHX-14 (4/27/22) and SW-11A. Analytical results indicated no Table I closure criteria over the limits for groundwater greater than one hundred (100) feet for BHX-14B. However, SW-11B did exhibit TPH concentrations above Table I concentrations.

On May 17, 2022, GHD and SS returned to the site to further excavate the area represented by SW-11B and collected a new sidewall confirmation sample, SW-11C. Analytical results indicate concentrations are below Table I closure criteria.

Figure 3 depicts the locations of the confirmation samples. Analytical results are provided in Table 1, and in the Laboratory Analytical Reports provided in Attachment D. A Photographic Log is provided as Attachment B and Confirmation Sampling Notifications are provided as Attachment C.

6. Waste Management

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 10,249.50 tons of impacted soil have been disposed at Lea Land, LLC, the waste manifests from March 9 through May 11, 2022, are available upon request and aren't included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2.

7. nAPP2111230058 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 nAPP2111230058. The site has not been backfilled but will be as soon as backfilling activities are scheduled.

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



Becky Haskell
Senior Project Manager



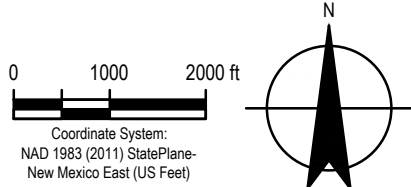
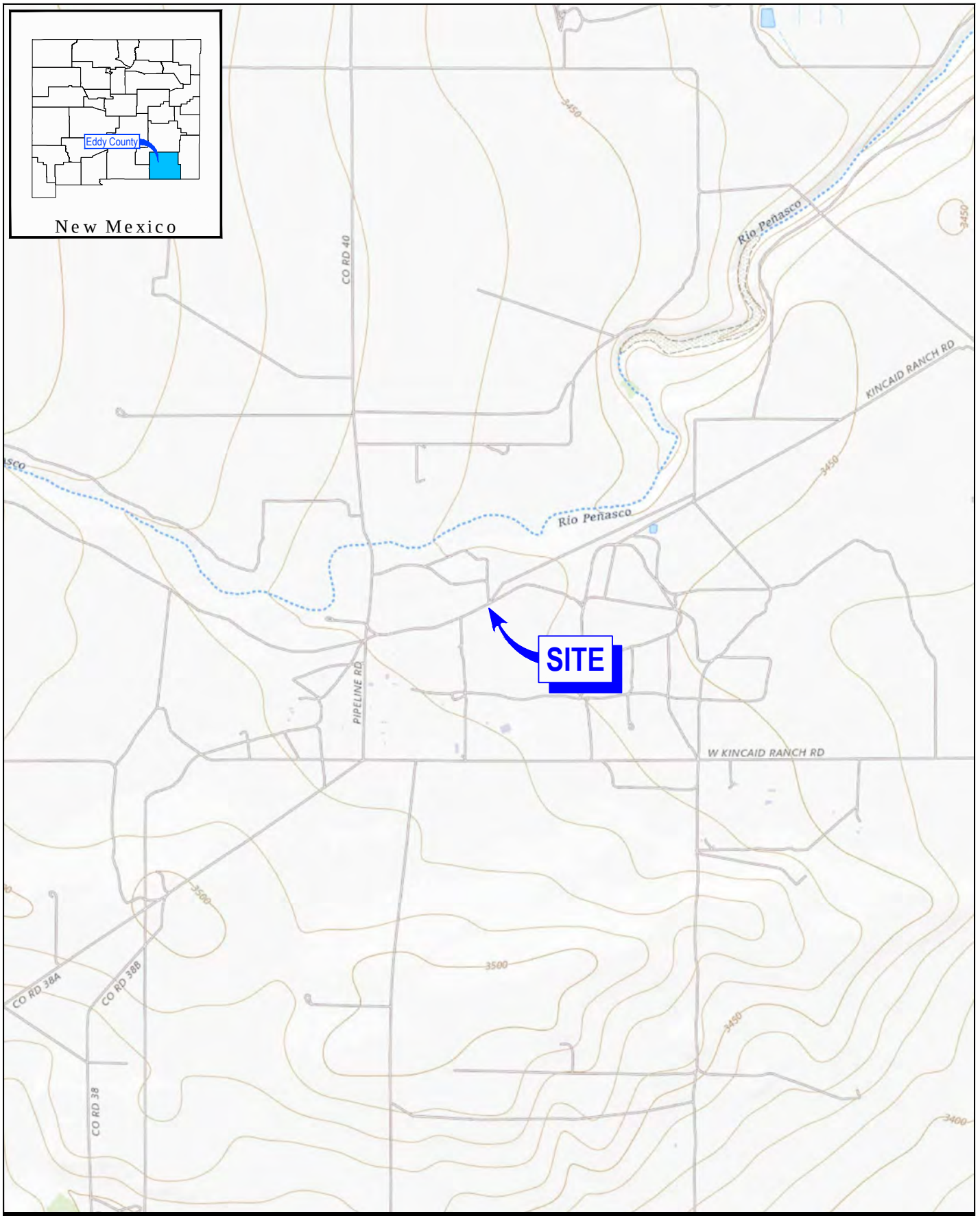
Thomas C. Larson
Project Director

BH/tl/1

Encl. Figure 1 – Site Location Map
 Figure 2 – Site Assessment Soil Analytical Results Map
 Figure 3 – Confirmation Sampling Analytical Results Map
 Table 1 – Summary of Soil Analytical Data
 Table 2 – Soil Disposal Summary
 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
YATE AS FEE BATTERY

Project No. 11228401
Date September 2021

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\USMidland\Projects\562\11228401\Digital_Design\ACAD 2018\Figures\RPT001\11228401-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Dayton, New Mexico"
Lat/Long: 32.717952° North, 104.439889° West

Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH		Chloride
			(mg/Kg)	(mg/Kg)	GRO + DRO	Total GRO/DRO/MRO	
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29				
			10 mg/Kg	50 mg/Kg	1,000 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
Test Pit Samples							
TP1-2	5/19/21	2	<0.024	<0.096	46	196	900
TP1-4	5/19/21	4	<0.025	<0.098	720	2,420	1,000
TP1-10	7/6/21	10	<0.025	<0.099	79	229	920
TP1-15	7/6/21	15	<0.024	<0.097	<9.3	<47	1,700
TP1-20	7/6/21	20	-	-	-	-	1,300
TP2-2	5/19/21	2	<0.024	<0.097	53	383	1,000
TP2-4	5/19/21	4	<0.024	<0.098	290	1,230	220
TP2-13	7/6/21	13	<0.12	<0.48	1,000	1,540	5,400
TP2-16	7/6/21	16	<0.12	6.8	980	1,560	9,100
TP2-20	7/6/21	20	<0.12	3.9	1,293	1,983	7,400
TP3-11	5/19/21	11	<0.023	<0.092	<9.4	<47	1,900
TP3-14	5/19/21	14	<0.024	<0.096	20	77	1,300
TP3-16	7/6/21	16	<0.024	<0.095	<9.7	<48	1,200
TP3-20	7/6/21	20	-	-	-	-	1,900
TP4-2	5/19/21	2	<0.025	<0.098	50	230	<60
TP4-6	7/6/21	6	<0.025	<0.10	9.8	62.8	<60
TP4-12	7/6/21	12	<0.023	<0.093	170	500	650
TP4-14	7/6/21	14	-	-	<8.8	<44	570
TP5-4	5/19/21	4	<0.025	<0.10	<9.9	<50	620
TP5-6	5/19/21	6	<0.024	<0.097	320	1,080	930
TP5-8	7/6/21	8	<0.023	<0.094	<8.9	<44	860
TP5-10	7/6/21	10	<0.024	<0.094	<9.0	<45	640
TP6-8	5/19/21	8	<0.024	<0.098	<9.6	<48	2,200
TP6-10	5/19/21	10	<0.024	<0.096	<9.5	<47	1,500
TP6-12	7/6/21	12	<0.025	<0.098	<9.1	<46	1,200
TP6-14	7/6/21	14	<0.024	<0.095	<8.4	<42	700
TP6-15	7/6/21	15	-	-	-	-	590
TP7-2	5/19/21	2	<0.024	<0.097	<9.0	<45	450
TP7-4	5/19/21	4	<0.025	<0.098	<9.5	<48	380
TP8-2	5/19/21	2	<0.024	<0.097	<9.4	<47	1,100
TP8-4	5/19/21	4	<0.025	<0.10	<9.7	<49	670
TP8-6	7/7/21	6	<0.024	<0.095	<9.2	<46	180
TP9-2	5/19/21	2	<0.025	<0.098	<9.6	<48	460
TP10-8	5/19/21	8	<0.024	<0.098	<8.4	<42	1,300
TP10-10	5/19/21	10	<0.024	<0.096	<8.8	<44	620
TP10-12	7/7/21	12	<0.025	<0.099	<8.6	<43	220
TP11-2	5/19/21	2	<0.12	<0.49	720	1,370	620
TP11-4	5/19/21	4	<0.024	<0.096	<9.7	<48	870
TP11-8	7/7/21	8	<0.025	<0.10	32	152	150
TP11-12	7/7/21	12	<0.025	<0.099	<9.7	<49	-
TP12-13	5/19/21	13	<0.025	<0.099	<9.6	<48	5,400
TP12-16	7/7/21	16	<0.024	<0.095	<9.2	<46	5,000
TP12-20	7/7/21	20	<0.025	<0.098	<8.6	<43	4,200
TP13-2	5/19/21	2	<0.023	<0.092	<9.1	<46	110
TP14-13	5/19/21	13	<0.025	<0.10	<9.6	<48	3,500
TP14-16	7/7/21	16	<0.025	<0.10	<9.6	<46	6,300
TP14-20	7/7/21	20	<0.024	<0.096	<9.3	<46	7,100

Sample ID	Sample Date	Depth (feet bgs)	TPH				
			Benzene	BTEX	GRO + DRO	Total GRO/DRO/MRO	Chloride
			(mg/Kg)	(mg/Kg)	mg/Kg	(mg/Kg)	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29				
			10 mg/Kg	50 mg/Kg	1,000 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
Test Pit Samples							
TP15-2	5/19/21	2	<0.024	<0.096	<9.8	<49	<60
TP16-10	5/19/21	10	<0.025	<0.099	<9.4	<47	4,500
TP16-13	5/19/21	13	<0.023	<0.094	<9.4	<47	4,700
TP16-16	7/7/21	16	<0.024	<0.096	<10	<50	4,800
TP16-20	7/7/21	20	<0.025	<0.098	<9.1'	<45	5,000
TP17-2	5/19/21	2	<0.023	<0.092	<10	<50	580
TP18-S	7/7/21	Surface	<0.024	<0.096	43	363	<59
TP18-2	7/7/21	2	<0.023	<0.094	<9.8	<49	<60
TP19-S	7/7/21	Surface	<0.024	<0.097	110	680	<60
TP19-2	7/7/21	2	<0.025	<0.099	<9.2	<46	<60
TP20-S	7/7/21	Surface	<0.024	<0.097	<9.1	<46	<60
TP20-2	7/7/21	2	<0.024	<0.098	<9.4	<47	<60
TP21-2	7/7/21	2	<0.024	<0.098	<9.5	<48	6,400
TP21-8	7/7/21	8	<0.024	<0.097	<8.2	<41	6,700
TP21-15	7/7/21	15	<0.025	<0.099	<9.2	<46	7,300
TP21-20	7/7/21	20	<0.025	<0.099	<9.9	<49	6,900
TP22-S	7/7/21	Surface	<0.024	<0.098	<9.3	<47	<60
TP22-2	7/7/21	2	<0.025	<0.099	<9.9	<50	<59
TP23-S	7/8/21	Surface	<0.024	<0.096	<9.8	<49	<61
TP23-2	7/8/21	2	<0.025	<0.10	<9.5	<48	<60

PROPOSED EXCAVATED AREA (4 FT)

PROPOSED EXCAVATED AREA (20 FT)

TEST PIT LOCATION

DEPTH

DEPTH OF SAMPLE (FT)

BTEX

BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)

TPH

TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)

LEGEND

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
YATE AS FEE BATTERY

SITE ASSESSMENT:
SOIL ANALYTICAL RESULTS MAP

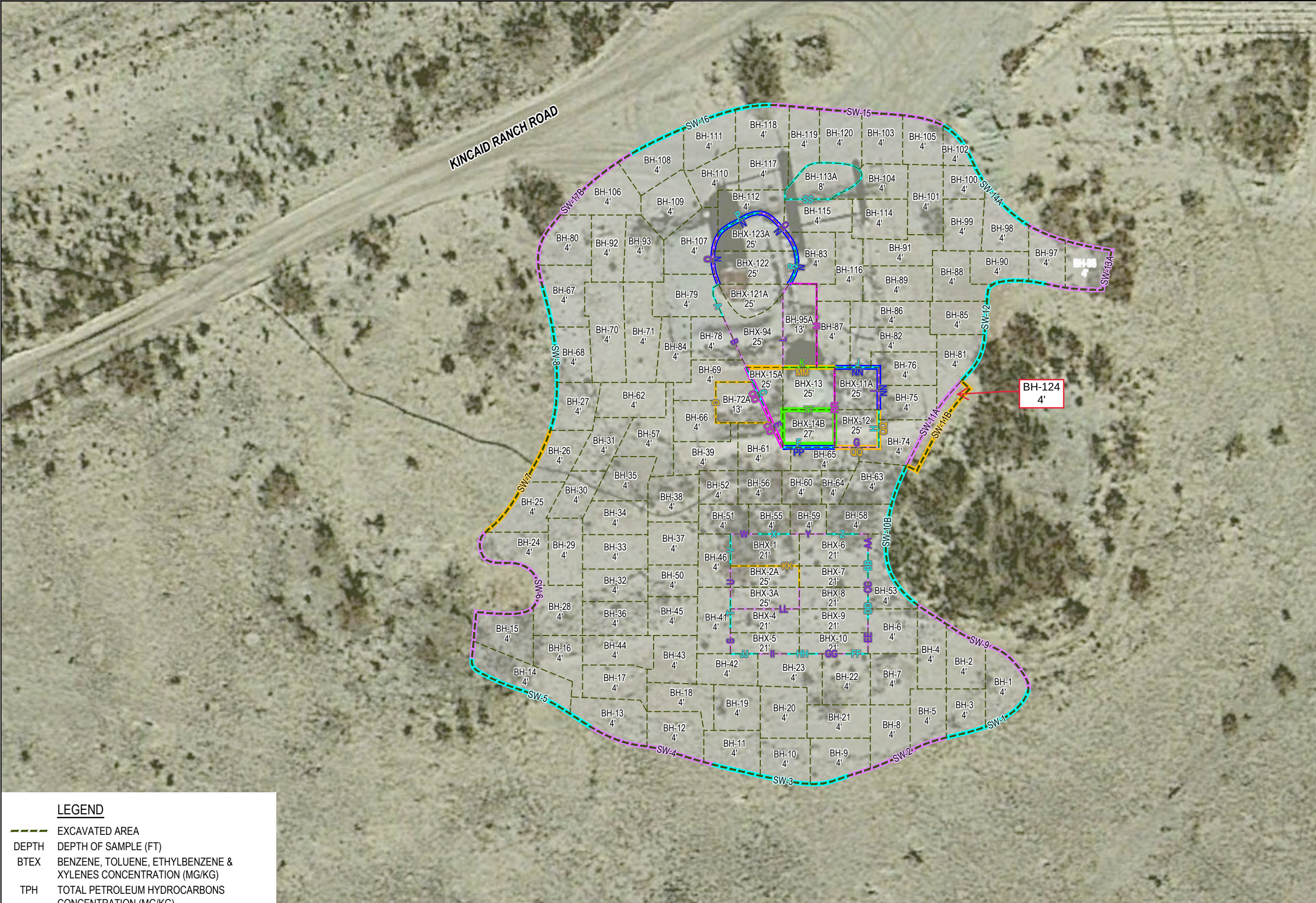
Project No. 11228401

Date September 2021

FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11228401\Digital_Design\ACAD 2018\Figures\RPT001\11228401-GHD-0000-RPT-EN-0101_DL-001.dwg
Plot Date: 16 September 2021 12:08 PM

Data Source: Image © 2021 Google - Imagery Date: December 21, 2019
Lat/Long: 32.717952° North, 104.439889° West



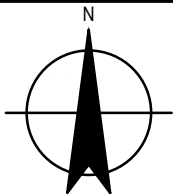
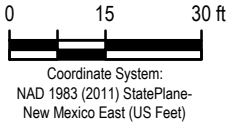
Sample Letter on Map	Sidewall ID on Table 1
A	SW-18A
B	SW-19A
C	SW-24A
D	SWX-28
E	SWX-29
F	SWX-30
G	SWX-31
H	SWX-24A
I	SWX-25
J	SWX-26
K	SWX-27
L	SW-25A
M	SWX-36
N	SWX-34
O	SW-20
P	SW-21
Q	SW-22
R	SWX-23
S	SWX-1
T	SWX-2
U	SWX-3
V	SWX-4
W	SWX-5
X	SWX-6
Y	SWX-7
Z	SWX-8
AA	SWX-9
BB	SWX-10
CC	SWX-11
DD	SWX-12
EE	SWX-13
FF	SWX-14
GG	SWX-15
HH	SWX-16
II	SWX-17
JJ	SWX-18
KK	SWX-32
LL	SWX-33
MM	SWX-23
NN	SWX-20
OO	SWX-22
PP	SWX-21
QQ	SWX-19
RR	SWX-24A
SS	SWX-35
TT	SWX-37

LEGEND

- EXCAVATED AREA
- DEPTH DEPTH OF SAMPLE (FT)
- BTEX BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)
- TPH TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
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- INDICATES SIDE WALL COMPOSITE SAMPLE

NOTES:

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



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
YATE AS FEE BATTERY

CONFIRMATION SAMPLING:
SOIL ANALYTICAL RESULTS MAP

Project No. 11228401
Date May 2022

FIGURE 3

Tables

Table 1
Summary of Soil Analytical Data
Yate AS Fee Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils >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
Test Pit Samples													
TP1-2	5/19/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	46	46	150	196	900
TP1-4	5/19/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	720	720	1700	2,420	1,000
TP1-10	7/6/21	10	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	79	79	150	229	920
TP1-15	7/6/21	15	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.3	<9.3	<47	<47	1,700
TP1-20	7/6/21	20	-	-	-	-	-	-	-	-	-	-	1,300
TP2-2	5/19/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	53	53	330	383	1,000
TP2-4	5/19/21	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	290	290	940	1,230	220
TP2-13	7/6/21	13	<0.12	<0.24	<0.24	<0.48	<0.48	<24	1,000	1,000	540	1,540	5,400
TP2-16	7/6/21	16	<0.12	<0.24	2.4	4.4	6.8	140	840	980	580	1,560	9,100
TP2-20	7/6/21	20	<0.12	<0.24	1.7	2.2	3.9	93	1,200	1,293	690	1,983	7,400
TP3-11	5/19/21	11	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.4	<9.4	<47	<47	1,900
TP3-14	5/19/21	14	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	20	20	57	77	1,300
TP3-16	7/6/21	16	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.7	<9.7	<48	<48	1,200
TP3-20	7/6/21	20	-	-	-	-	-	-	-	-	-	-	1,900
TP4-2	5/19/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	50	50	180	230	<60
TP4-6	7/6/21	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	9.8	9.8	53	62.8	<60
TP4-12	7/6/21	12	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	170	170	330	500	650
TP4-14	7/6/21	14	-	-	-	-	-	<4.9	<8.8	<8.8	<44	<44	570
TP5-4	5/19/21	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<9.9	<50	<50	620
TP5-6	5/19/21	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	320	320	760	1,080	930
TP5-8	7/6/21	8	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<8.9	<8.9	<44	<44	860
TP5-10	7/6/21	10	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.0	<9.0	<45	<45	640
TP6-8	5/19/21	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	2,200
TP6-10	5/19/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<9.5	<47	<47	1,500
TP6-12	7/6/21	12	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<9.1	<46	<46	1,200
TP6-14	7/6/21	14	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<8.4	<8.4	<42	<42	700
TP6-15	7/6/21	15	-	-	-	-	-	-	-	-	-	-	590
TP7-2	5/19/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.0	<9.0	<45	<45	450
TP7-4	5/19/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<9.5	<48	<48	380
TP8-2	5/19/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<9.4	<47	<47	1,100
TP8-4	5/19/21	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<9.7	<49	<49	670
TP8-6	7/7/21	6	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.2	<9.2	<46	<46	180
TP9-2	5/19/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	460
TP10-8	5/19/21	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.4	<8.4	<42	<42	1,300
TP10-10	5/19/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<8.8	<44	<44	620
TP10-12	7/7/21	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.6	<8.6	<43	<43	220
TP11-2	5/19/21	2	<0.12	<0.25	<0.25	<0.49	<0.49	<25	720	720	650	1,370	620

Table 1
Summary of Soil Analytical Data
Yate AS Fee Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table I Closure Criteria for Soils >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
TP11-4	5/19/21	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<9.7	<48	<48	870
TP11-8	7/7/21	8	<0.025	<0.050	<0.050	<0.010	<0.10	<5.0	32	32	120	152	150
TP11-12	7/7/21	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<9.7	<49	<49	-
TP12-13	5/19/21	13	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<9.6	<48	<48	5,400
TP12-16	7/7/21	16	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.2	<9.2	<46	<46	5,000
TP12-20	7/7/21	20	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.6	<8.6	<43	<43	4,200
TP13-2	5/19/21	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.1	<9.1	<46	<46	110
TP14-13	5/19/21	13	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<9.6	<48	<48	3,500
TP14-16	7/7/21	16	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<9.6	<46	<46	6,300
TP14-20	7/7/21	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<9.3	<46	<46	7,100
TP15-2	5/19/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<9.8	<49	<49	<60
TP16-10	5/19/21	10	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<9.4	<47	<47	4,500
TP16-13	5/19/21	13	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<9.4	<47	<47	4,700
TP16-16	7/7/21	16	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<10	<50	<50	4,800
TP16-20	7/7/21	20	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<9.1	<45	<45	5,000
TP17-2	5/19/21	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<10	<10	<50	<50	580
TP18-S	7/7/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	43	43	320	363	<59
TP18-2	7/7/21	2	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<9.8	<49	<49	<60
TP19-S	7/7/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	110	110	570	680	<60
TP19-2	7/7/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<9.2	<46	<46	<60
TP20-S	7/7/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.1	<9.1	64	64	<60
TP20-2	7/7/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<9.4	<47	<47	<60
TP21-2	7/7/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<9.5	<48	<48	6,400
TP21-8	7/7/21	8	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.2	<8.2	<41	<41	6,700
TP21-15	7/7/21	15	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.2	<9.2	<46	<46	7,300
TP21-20	7/7/21	20	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<49	<49	6,900
TP22-S	7/7/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<9.3	<47	<47	<60
TP22-2	7/7/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<9.9	<50	<50	<59
TP23-S	7/8/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<9.8	<49	<49	<61
TP23-2	7/8/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<9.5	<48	<48	<60
TP24-8	3/10/22	8	1.2	<0.13	7.9	17	26.1	310	1,300	1,610	540	2,150	420
TP24-10	3/10/22	10	2.5	0.23	9.8	21	33.53	350	2,900	3,250	1,300	4,550	450
TP24-12	3/10/22	12	3.5	<0.19	11	21	35.5	540	3,700	4,240	1,400	5,640	1,100
TP24-14	3/10/22	14	0.35	<0.20	2.6	1.3	4.25	67	810	877	470	1,347	1,400
TP24-16	3/10/22	16	<0.097	<0.19	1.6	0.81	2.41	72	990	1,062	340	1,402	1,300
TP24-18	3/10/22	18	<0.083	<0.17	<0.17	<0.33	<0.33	<17	300	300	120	420	1,200
TP24-20	3/10/22	20	<0.094	<0.19	0.39	<0.38	0.39	20	530	550	280	830	1,200

Table 1
Summary of Soil Analytical Data
Yate AS Fee Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)	
			Table I Closure Criteria for Soils >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		
Bottom Hole Confirmation Samples														
BH-1	3/11/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<9.2	<46	<46	430	
BH-2	3/11/22	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<8.8	<8.8	<44	<44	84	
BH-3	3/11/22	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.5	<9.5	<48	<48	480	
BH-4	3/11/22	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<9.7	<49	<49	270	
BH-5	3/11/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<9.5	<48	<48	110	
BH-6	3/11/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.1	<9.1	<46	<46	530	
BH-7	3/11/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<9.6	<48	<48	440	
BH-8	3/11/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	220	220	100	320	1,400	
BH-9	3/11/22	4	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	21	21	<49	21	2,300	
BH-10	3/11/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<9.5	<47	<47	1,700	
BH-11	3/11/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	1,300	
BH-12	3/11/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<9.8	<49	<49	2,200	
BH-13	3/11/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<9.6	<48	<48	3,200	
BH-14	3/11/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<50	<50	1,800	
BH-15	3/11/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	36	36	86	122	830	
BH-16	3/11/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<9.6	<48	<48	3,300	
BH-17	3/11/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	46	46	<47	46	6,200	
BH-18	3/11/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	41	41	<48	41	1,000	
BH-19	3/11/22	4	<0.12	<0.25	<0.25	<0.49	<0.49	<25	55	55	58	113	1,100	
BH-20	3/11/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	130	130	90	220	1,800	
BH-21	3/11/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	49	49	96	145	600	
BH-22	3/11/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	14	14	<49	14	760	
BH-23	3/11/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	51	51	57	108	1,400	
BH-24	3/14/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<49	<49	1,300	
BH-25	3/14/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	1,500	
BH-26	3/14/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	120	
BH-27	3/14/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	180	
BH-28	3/14/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	130	130	190	320	870	
BH-29	3/14/22	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<9.6	<48	<48	5,800	
BH-30	3/14/22	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<9.6	<48	<48	3,500	
BH-31	3/14/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<9.2	<46	<46	1,600	
BH-32	3/14/22	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	700	700	1,100	1,800	540	
BH-33	3/14/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	250	250	520	770	1,300	
BH-34	3/14/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.4	<9.4	<47	<47	2,700	
BH-35	3/14/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<9.5	<48	<48	5,300	
BH-36	3/14/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	310	310	1,000	1,310	1,100	
BH-37	3/14/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	78	78	210	288	1,700	
BH-38	3/14/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.0	<9.0	<45	<45	1,900	
BH-39	3/14/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<9.9	<49	<49	890	

Table 1
Summary of Soil Analytical Data
Yate AS Fee Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table I Closure Criteria for Soils >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-40~~	~~3/15/22~~	~~4~~	~~<0.12~~	~~<0.23~~	~~<0.23~~	~~<0.46~~	~~<0.46~~	~~<23~~	~~1,900~~	~~1,900~~	~~1,100~~	~~3,600~~	~~490~~
BHX-5 (BH-40A)	3/30/22	21	<0.022	<0.043	<0.043	<0.087	<0.087	<4.3	160	160	82	242	1,100
BH-41	3/15/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	11	11	<49	11	1,200
BH-42	3/15/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	87	87	350	437	1,700
BH-43	3/15/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	390	390	1,200	1,590	740
BH-44	3/15/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	310	310	740	1,050	1,100
BH-45	3/15/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	190	190	410	600	1,900
BH-46	3/15/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	500	500	400	900	520
~~BH-47~~	~~3/15/22~~	~~4~~	~~<0.023~~	~~<0.047~~	~~0.058~~	~~0.15~~	~~0.208~~	~~<4.7~~	~~6,400~~	~~6,400~~	~~3,400~~	~~9,600~~	~~550~~
BHX-4 (BH-47A)	3/30/22	21	<0.017	<0.034	<0.034	<0.068	<0.068	<3.4	610	610	300	910	1,200
~~BH-48~~	~~3/15/22~~	~~4~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~0.11~~	~~0.11~~	~~<4.9~~	~~1,200~~	~~1,200~~	~~1,400~~	~~2,600~~	~~260~~
BHX-8 (BH-48A)	3/30/22	21	<0.016	<0.031	<0.031	<0.063	<0.063	<3.1	220	220	120	340	1,800
~~BH-49~~	~~3/15/22~~	~~4~~	~~<0.025~~	~~<0.050~~	~~0.28~~	~~0.58~~	~~0.86~~	~~19~~	~~8,900~~	~~8,910~~	~~3,800~~	~~12,710~~	~~970~~
BHX-7 (BH-49A)	3/30/22	21	<0.019	<0.037	<0.037	<0.074	<0.074	<3.7	300	300	150	450	6,600
BH-50	3/15/22	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	130	130	400	530	140
BH-51	3/15/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	110	110	310	420	2,600
BH-52	3/15/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<9.8	<49	<49	4,800
BH-53	3/15/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	880	880	1,100	1,980	410
~~BH-54~~	~~3/15/22~~	~~4~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~5,000~~	~~5,000~~	~~2,500~~	~~7,500~~	~~710~~
BHX-1 (BH-54A)	3/30/22	21	<0.016	<0.031	<0.031	<0.062	<0.062	5.1	670	675	350	1,025	2,900
BH-55	3/16/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	30	30	55	85	450
BH-56	3/16/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<10	<50	<50	4,800
BH-57	3/16/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.1	<9.1	<45	<45	5,700
BH-58	3/16/22	4	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	290	290	480	770	260
BH-59	3/16/22	4	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	59	59	78	137	740
BH-60	3/16/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<9.8	<49	<49	410
BH-61	3/16/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.6	<9.6	<48	<48	950
BH-62	3/16/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<9.9	<50	<50	1,000
BH-63	3/16/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	62	62	86	148	750
BH-64	3/16/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.5	<9.5	<48	<48	580
BH-65	3/16/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<9.3	<47	<47	470
BH-66	3/16/22	4	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.8	<9.8	<49	<49	280
BH-67	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<9.8	<49	<49	170
BH-68	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<9.7	<49	<49	250
BH-69	3/17/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<10	<50	<50	120
BH-70	3/17/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	1,400
BH-71	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<9.8	<49	<49	1,800
~~BH-72~~	~~3/17/22~~	~~4~~	~~<0.12~~	~~<0.25~~	~~0.32~~	~~2.1~~	~~2.42~~	~~85~~	~~5,000~~	~~5,085~~	~~3,300~~	~~9,185~~	~~1,900~~
BH-72A	4/28/22	13	<0.019	<0.039	<0.039	<0.077	<0.077	<3.9	270	270	200	470	2,200
~~BH-73~~	~~3/17/22~~	~~4~~	~~<0.12~~	~~<0.25~~	~~3.0~~	~~7.2~~	~~10.2~~	~~180~~	~~2,600~~	~~2,780~~	~~1,400~~	~~4,180~~	~~1,900~~

Table 1
Summary of Soil Analytical Data
Yate AS Fee Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils >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
~~BHX-14 (BH-73A)~~	~~3/31/22~~	~~15~~	~~<0.074~~	~~<0.15~~	~~3.7~~	~~5.0~~	~~8.7~~	~~160~~	~~3,000~~	~~3,160~~	~~1,100~~	~~4,260~~	~~1,600~~
~~BHX-14 (BH-73B)~~	~~4/27/22~~	~~25~~	~~<0.10~~	~~<0.20~~	~~0.47~~	~~<0.40~~	~~0.47~~	~~28~~	~~2,700~~	~~2,728~~	~~1,100~~	~~3,828~~	~~1,600~~
BHX-14B (BH-73C)	5/12/22	27	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	350	350	251	601	32.0
BH-74	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	79	79	160	239	290
BH-75	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	40	40	79	119	860
BH-76	3/17/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	810	810	980	1,790	320
~~BH-77~~	~~3/17/22~~	~~4~~	~~<0.12~~	~~0.51~~	~~3.3~~	~~8.6~~	~~12.41~~	~~210~~	~~5,200~~	~~5,410~~	~~2,400~~	~~7,810~~	~~3,100~~
BHX-13 (BH-77A)	3/31/22	15	<0.071	<0.14	0.28	<0.29	0.28	20	580	600	270	870	1,700
BH-78	3/17/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	270	270	530	800	1,700
BH-79	3/17/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	16	16	<47	16	1,000
BH-80	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<10	<50	<50	120
BH-81	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	23	23	49	72	280
BH-82	3/17/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	260	260	400	660	300
BH-83	3/17/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	530	530	540	1,070	1,900
BH-84	3/17/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	210	210	280	490	1,400
BH-85	3/17/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	670
BH-86	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	130	130	170	300	750
BH-87	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	84	84	160	244	450
BH-88	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	21	21	78	99	1,500
BH-89	3/17/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	89	89	150	239	2,300
BH-90	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<49	<49	1,900
BH-91	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	120	120	170	290	3,500
BH-92	3/21/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	140	140	180	320	2,100
BH-93	3/21/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	220	220	230	450	2,600
BH-94	3/21/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	110	110	160	270	1,300
~~BH-95~~	~~3/21/22~~	~~4~~	~~<0.12~~	~~<0.24~~	~~<0.24~~	~~<0.48~~	~~<0.48~~	~~<24~~	~~3,700~~	~~3,700~~	~~2,400~~	~~6,100~~	~~560~~
BH-95A	4/28/22	8	<0.019	<0.037	<0.037	<0.075	<0.075	<3.7	15	15	<44	15	1,600
BH-96	3/21/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	430
BH-97	3/21/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<9.9	<49	<49	480
BH-98	3/21/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<9.4	<47	<47	320
BH-99	3/21/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.8	<9.8	<49	<49	1,900
BH-100	3/21/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	13	13	<46	13	1,500
BH-101	3/22/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	9.4	9.4	<46	9.4	1,200
BH-102	3/22/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	12	12	<50	12	1,700
BH-103	3/22/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	25	25	51	76	1,200
BH-104	3/22/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	68	68	100	168	2,100
BH-105	3/22/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<49	<49	1,700
BH-106	3/22/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	99	99	150	249	220
BH-107	3/22/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	68	68	67	135	5,300
BH-108	3/22/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	12	12	<47	12	140

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Summary of Soil Analytical Data
Yate AS Fee Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils >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-109	3/22/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	27	27	<47	27	5,200
BH-110	3/22/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<9.4	<47	<47	77
BH-111	3/22/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	77	77	64	141	3,900
BH-112	3/22/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	340	340	240	580	1,200
BH-113	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	2,700	2,700	1,500	4,200	2,400
BH-113A	4/29/22	8	<0.018	<0.036	<0.036	<0.072	<0.072	<3.6	210	210	160	370	780
BH-114	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	540	540	530	1,070	1,500
BH-115	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	170	170	120	290	1,800
BH-116	3/22/22	4	<0.12	<0.23	<0.23	<0.47	<0.47	<23	260	260	180	440	2,600
BH-117	3/22/22	4	<0.12	<0.25	<0.25	<0.50	<0.50	<25	38	38	<50	38	980
BH-118	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	930	930	480	1,410	4,400
BH-119	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	480	480	220	700	3,300
BH-120	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	520	520	220	740	4,100
BH-121	3/22/22	22	<0.12	<0.24	<0.24	<0.48	<0.48	<24	2,100	2,100	950	3,050	5,100
BH-121A	4/29/22	25	<0.018	<0.037	<0.037	<0.073	<0.073	<3.7	540	540	320	860	5,400
BH-122	3/22/22	22	<0.12	<0.24	<0.24	<0.49	<0.49	<24	52	52	<48	52	4,700
BH-123	3/22/22	22	<0.46	<0.93	13	16	29	370	6,300	6,670	2,100	8,770	6,100
BH-123A	4/29/22	25	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	700	700	420	1,120	3,300
BH-124	5/12/22	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	194	194	119	313	176
BHX-2	3/30/22	21	<0.046	<0.092	0.038	<0.065	0.038	16	1,400	1,416	520	1,936	3,900
BHX-2A	5/5/22	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	200	200	35.6	235.6	3,120
BHX-3	3/30/22	21	<0.048	<0.095	<0.095	<0.071	<0.071	5.5	1,200	1,206	500	1,706	3,500
BHX-3A	5/5/22	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	160	160	31.0	191	2,040
BHX-6	3/30/22	21	<0.015	<0.030	<0.030	<0.061	<0.061	3.8	440	444	200	644	7,200
BHX-9	3/30/22	21	<0.016	<0.031	<0.031	<0.062	<0.062	<3.1	450	450	220	670	1,900
BHX-10	3/30/22	21	<0.016	<0.032	<0.032	<0.063	<0.063	<3.2	420	420	190	610	1,900
BHX-11	3/31/22	12	<0.094	<0.19	0.57	<0.38	0.57	43	3,000	3,043	1,000	4,043	1,900
BHX-11	4/27/22	25	<0.091	<0.18	<0.18	<0.37	<0.37	<18	1,000	1,000	490	1,490	1,400
BHX-12	3/31/22	12	<0.088	<0.18	<0.18	<0.35	<0.35	<18	120	120	100	220	950
BHX-15	3/31/22	15	<0.084	<0.17	0.48	<0.33	0.48	26	1,600	1,626	1,200	2,826	1,700
BHX-15 (BHX-15A on Fig. 3)	4/27/22	25	<0.093	<0.19	<0.19	<0.37	<0.37	<19	410	410	200	610	2,000
Sidewall Confirmation Samples													
SW-1	3/14/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<9.3	<46	<46	160
SW-2	3/14/22	Sidewall	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.1	<9.1	<46	<46	99
SW-3	3/14/22	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<9.5	<48	<48	160
SW-4	3/14/22	Sidewall	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.3	<9.3	<46	<46	<59
SW-5	3/14/22	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.0	<9.0	<45	<45	<60
SW-6	3/14/22	Sidewall	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<9.5	<47	<47	77
SW-7	3/14/22	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.1	<9.1	<46	<46	<60
SW-8	3/14/22	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<10	<50	<50	190
SW-9	3/14/22	Sidewall	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<9.7	<48	<48	<60

Table 1
Summary of Soil Analytical Data
Yate AS Fee Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils >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-10	3/16/22	Sidewall	<0.024	<0.049	0.075	0.36	0.435	<4.9	72	72	160	232	120
SW-10	3/30/22	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	150	150	350	500	64
SW-10A	4/26/22	Sidewall	<0.021	<0.041	<0.041	<0.083	<0.083	<4.1	170	170	360	530	86
SW-10B	5/6/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-11	3/18/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	71	71	200	271	270
SW-11A	5/6/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	145	145	122	267	32.0
SW-11B	5/12/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,010	1,010	157	1,167	2,140
SW-11C	5/17/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-12	3/18/22	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<9.4	<47	<47	200
SW-13	3/18/22	Sidewall	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	16	16	50	66	660
SW-13A	5/6/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10.8	10.8	128
SW-14	3/18/22	Sidewall	<0.12	<0.25	<0.25	<0.49	<0.49	<25	630	630	950	1,580	170
SW-14A	5/6/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-15	3/18/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	86	86	150	236	350
SW-16	3/18/22	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<9.5	<48	<48	200
SW-17	3/18/22	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	110	110	190	300	85
SW-17A	4/25/22	Sidewall	<0.089	<0.18	<0.18	<0.36	<0.36	<18	960	960	1,300	2,260	650
SW-17B	4/29/22	Sidewall	<0.022	<0.045	<0.045	<0.089	<0.089	<4.5	<9.7	<9.7	<48	<48	<60
SW-18	3/22/22	Sidewall	<0.12	<0.24	3.0	2.2	5.2	120	3,500	3,620	1,300	4,920	6,100
SW-18A	5/5/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,520
SW-19	3/22/22	Sidewall	<0.12	<0.24	0.42	<0.49	0.42	51	1,500	1,551	780	2,251	4,900
SW-19A	5/5/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,540
SW-20	3/22/22	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<9.9	<50	<50	4,200
SW-21	3/22/22	Sidewall	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.6	<9.6	<48	<48	3,700
SW-22	3/22/22	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	11	11	<46	11	2,700
SW-23	3/22/22	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	11	11	<48	11	5,200
SW-24	3/22/22	Sidewall	<0.12	<0.25	<0.25	<0.50	<0.50	<25	1,400	1,400	650	2,050	6,400
SW-24A	5/5/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,040
SW-25	3/22/22	Sidewall	<0.12	<0.24	<0.24	<0.49	<0.49	<24	2,400	2,400	930	3,330	7,300
SW-25A	5/5/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,870
SWX-1	3/30/22	4-21'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<9.1	<46	<46	840
SWX-2	3/30/22	4-21'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<10	<50	<50	870
SWX-3	3/30/22	4-21'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<9.8	<49	<49	740
SWX-4	3/30/22	4-21'	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.8	<9.8	<49	<49	720
SWX-5	3/30/22	4-21'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<9.9	<50	<50	650
SWX-6	3/30/22	4-21'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<9.6	<48	<48	720
SWX-7	3/30/22	4-21'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<9.5	<47	<47	710
SWX-8	3/30/22	4-21'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<9.5	<48	<48	820
SWX-9	3/30/22	4-21'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<9.8	<49	<49	780
SWX-10	3/30/22	4-21'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.1	<9.1	<46	<46	730

Table 1
Summary of Soil Analytical Data
Yate AS Fee Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils >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-11	3/30/22	4-21'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<9.9	<50	<50	940
SWX-12	3/30/22	4-21'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	29	29	<46	29	900
SWX-13	3/30/22	4-21'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	25	25	<50	25	940
SWX-14	3/30/22	4-21'	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<9.7	<48	<48	720
SWX-15	3/30/22	4-21'	<0.12	<0.25	<0.25	<0.50	<0.050	<25	610	610	460	1,070	620
SWX-16	3/30/22	4-21'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	340	340	320	660	700
SWX-17	3/30/22	4-21'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	270	270	270	540	840
SWX-18	3/30/22	4-21'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	89	89	120	209	800
SWX-19	3/31/22	4-12'	<0.12	<0.25	<0.25	<0.50	<0.050	<25	570	570	430	1,000	900
SWX-20	3/31/22	4-12'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	210	210	380	590	550
SWX-21	3/31/22	4-12'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	83	83	160	243	1,000
SWX-22	3/31/22	4-12'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	51	51	82	133	1,600
SWX-23	3/31/22	4-12'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	210	210	290	500	1,200
SWX-24	3/31/22	12-15'	<0.12	<0.25	1.6	1.6	3.2	91	2,400	2,491	1,200	3,691	1,500
SWX-24A	4/28/22	12-25'	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<9.8	<9.8	<49	<49	1,000
SWX-25	5/5/22	12-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
SWX-26	5/5/22	12-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
SWX-27	5/5/22	15-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
SWX-28	5/5/22	4-13'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,220
SWX-29	5/5/22	15-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400
SWX-30	5/5/22	15-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,280
SWX-31	5/5/22	12-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	944
SWX-32	5/5/22	21-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	801	801	136	937	6,160
SWX-33	5/5/22	21-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	269	269	61.1	330.1	2,840
SWX-34	5/5/22	21-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,100
SWX-35	5/5/22	4-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.3	31.3	<10.0	31.3	1,730
SWX-36	5/5/22	4-13'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	229	229	166	395	1,520
SWX-37	5/12/22	5-27'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	553	553	97	650	2,880

Notes:

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

B-BH-2 Sample Point Excavated

Table 2
Daily Disposal Summary
Yates AS Fee Battery
EOG Resources
Eddy, County, New Mexico

Date of Disposal	Total Pounds Disposed	Total Tons Disposed
3/9/2022	1,009,700	504.85
3/10/2022	1,565,700	782.85
3/11/2022	73,360	36.68
3/14/2022	1,978,080	989.04
3/15/2022	1,933,540	966.77
3/16/2022	2,054,840	1,027.42
3/17/2022	1,791,080	895.54
3/18/2022	503,160	251.58
3/21/2022	779,620	389.81
3/22/2022	1,694,660	847.33
3/23/2022	1,297,520	648.76
3/24/2022	938,300	469.15
3/25/2022	98,340	49.17
3/31/2022	1,115,340	557.67
4/1/2022	347,800	173.90
4/26/2022	1,078,440	539.22
4/29/2022	668,420	334.21
5/2/2022	604,900	302.45
5/3/2022	870,740	435.37
5/11/2022	95,460	47.73
Project Total	20,499,000	10,249.50

Attachment A

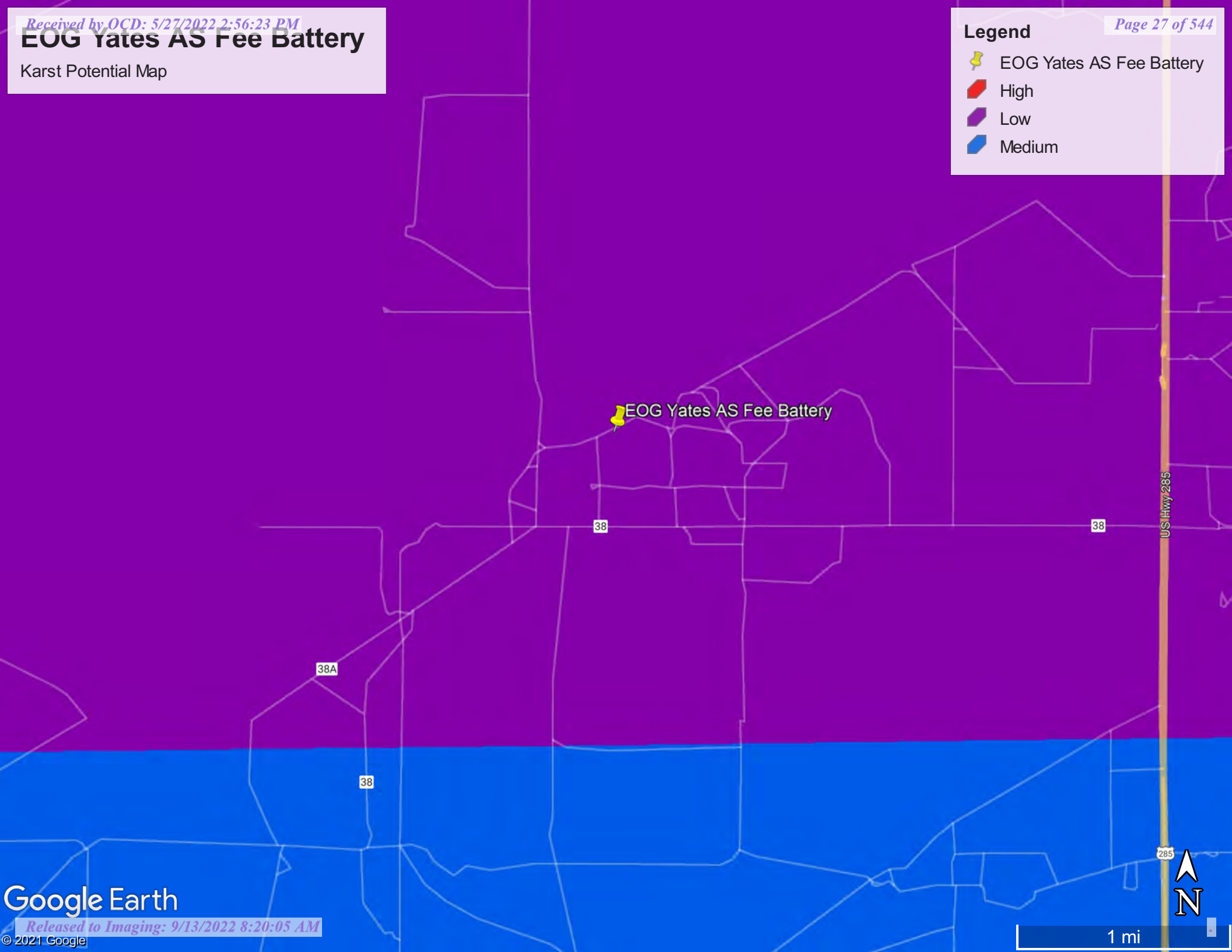
Site Characterization Documentation

EOG Yates AS Fee Battery

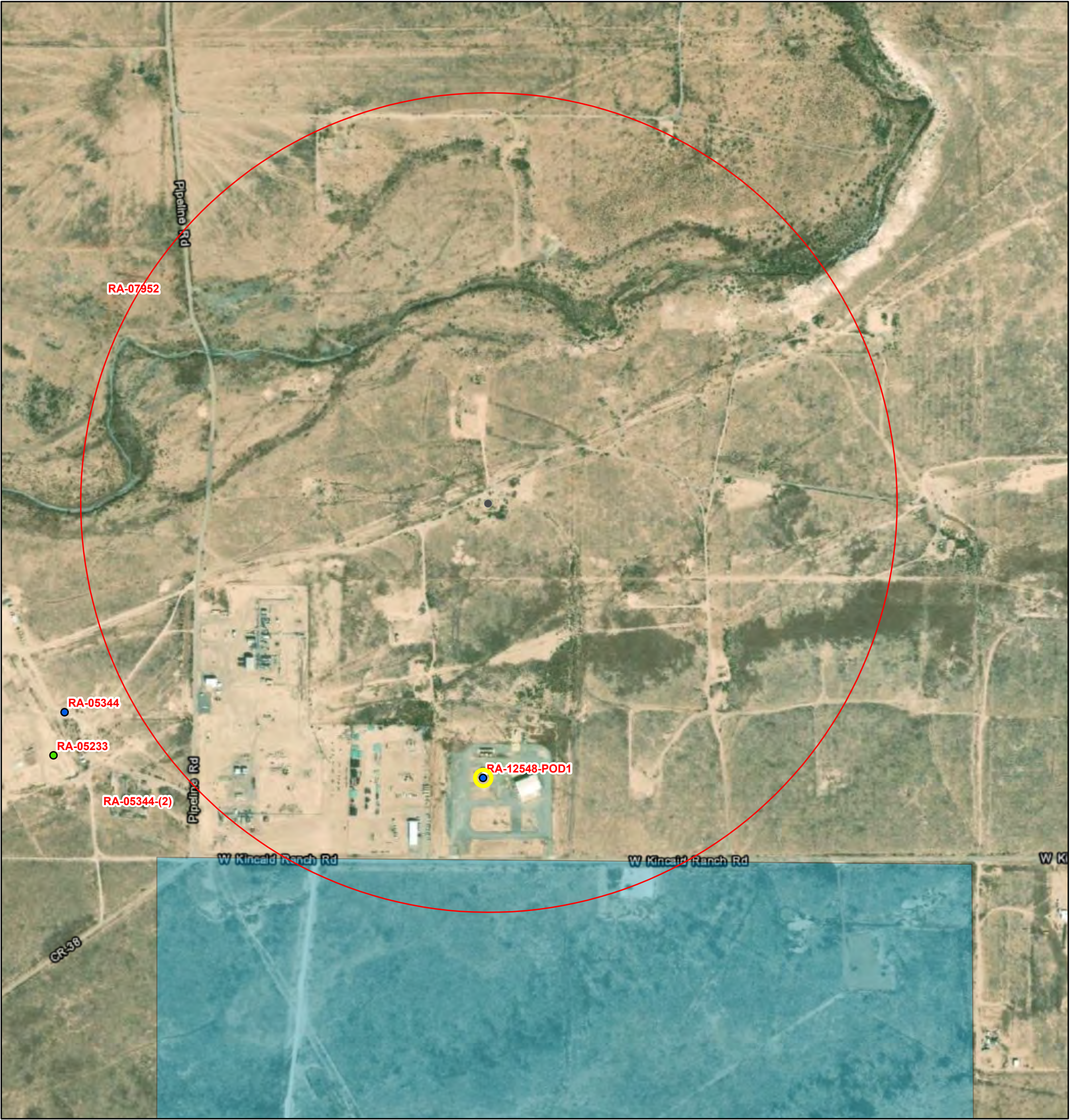
Karst Potential Map

Legend

-  EOG Yates AS Fee Battery
-  High
-  Low
-  Medium



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GIS WATERS PODs

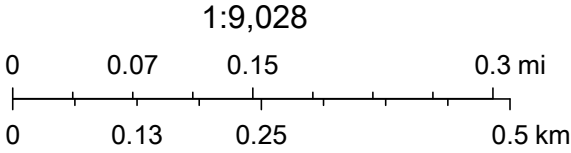
- Active
- Pending

OSE District Boundary

New Mexico State Trust Lands

Both Estates

SiteBoundaries



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



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.

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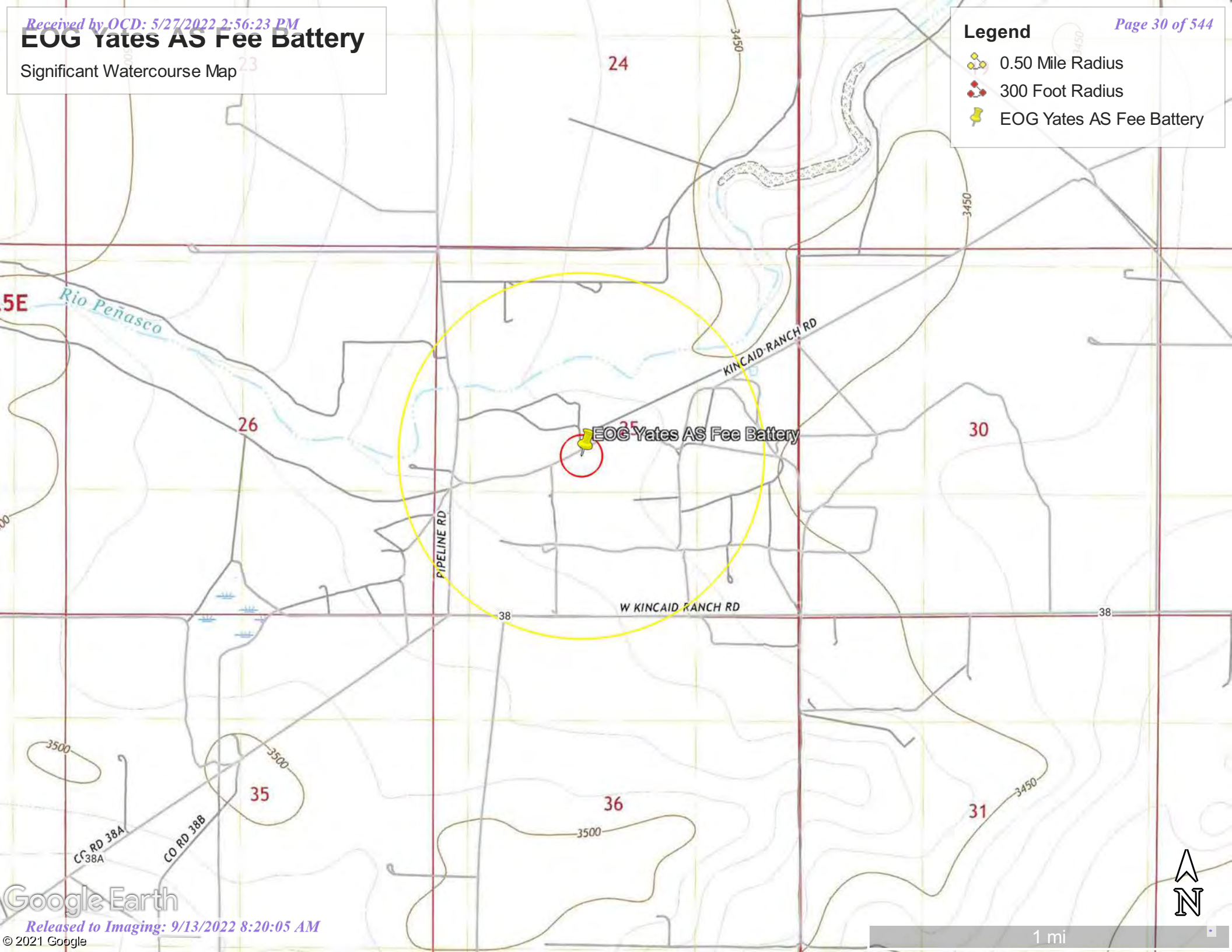
POINT OF DIVERSION SUMMARY

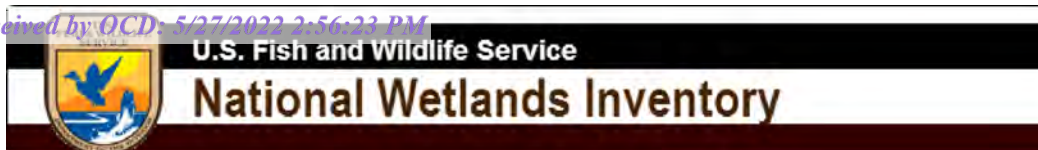
EOG Yates AS Fee Battery

Significant Watercourse Map

Legend

-  0.50 Mile Radius
-  300 Foot Radius
-  EOG Yates AS Fee Battery





EOG Yates AS Fee Battery



September 14, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



104°26'42"W 32°43'20"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		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 9/14/2021 at 10:26 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Attachment B Photographic Log



Site Photograph

EOG Yates AS Fee Release Site.

GHD | Report for EOG | 11228401



Site Photograph

EOG Yates AS Fee Release Site.

GHD | Report for EOG | 11228401



Attachment C

Confirmation Sampling Notifications

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: Yates AS Fee Battery (nAPP2111230058) Sampling Notification

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, March 3, 2022 2:42 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: Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Good afternoon,

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

Yates AS Fee Battery
K-25-18S-25E
Eddy County, NM
nAPP2111230058

Sampling will begin at 8:00 a.m. on Friday, March 11, 2022.

Thank you,

Miriam Morales

Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Wednesday, March 9, 2022 10:50 AM
To: Zach Comino; Becky Haskell
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you,
Amber Griffin

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Wednesday, March 9, 2022 9:36 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] Yates AS Fee Battery (nAPP2111230058) 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 9:18 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] Yates AS Fee Battery (nAPP2111230058) 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.

Yates AS Fee Battery
K-25-18S-25E
Eddy County, NM
nAPP2111230058

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

Thank you,

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



Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, March 17, 2022 8:51 AM
To: Becky Haskell; Zach Comino
Cc: Amber Griffin
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, March 17, 2022 7:46 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] Yates AS Fee Battery (nAPP2111230058) 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 5:04 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] Yates AS Fee Battery (nAPP2111230058) 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.

Yates AS Fee Battery
nAPP2111230058

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: Wednesday, March 23, 2022 4:40 PM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, March 23, 2022 3:40 PM
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: Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Good afternoon,

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

Yates AS Fee Battery
K-25-18S-25E
Eddy County, NM
nAPP2111230058

Sampling will begin at 8:00 a.m. on Wednesday, March 30, 2022.

Thank you,

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



Artesia Division

Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Thursday, April 21, 2022 3:39 PM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, April 21, 2022 2:38 PM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

FYI

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, April 21, 2022 1:16 PM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) 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: Thursday, April 21, 2022 8:25 AM
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] Yates AS Fee Battery (nAPP2111230058) 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.

Yates AS Fee Battery
nAPP2111230058

Sampling will begin at 1:00 p.m. on Monday, April 25, 2022.

Thank you,

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



Artesia Division

Becky Haskell

From: Amber Griffin <Amber_Griffin@eogresources.com>
Sent: Tuesday, May 3, 2022 10:51 AM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Tuesday, May 3, 2022 9:50 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

FYI

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Tuesday, May 3, 2022 8:15 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) 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.

Please, include the CC'd individuals on all future notifications.

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: Monday, May 2, 2022 2:03 PM

To: Hamlet, Robert, EMNRD <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: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) 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.

Yates AS Fee Battery
K-25-18S-25E; Eddy County, NM
nAPP2111230058

Sampling will begin at 10:00 a.m. on Thursday, May 5, 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 10:41 AM
To: Becky Haskell; Zach Comino
Cc: Chase Settle
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, May 5, 2022 9:41 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

fyi

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, May 5, 2022 9:24 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) 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: Thursday, May 5, 2022 8:15 AM
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] Yates AS Fee Battery (nAPP2111230058) 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.

Yates AS Fee Battery
K-25-18S-25E; Eddy County, NM
nAPP2111230058

Sampling will begin at 10:00 a.m. on Thursday, May 12, 2022.

Thank you,

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



Artesia Division

Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, May 12, 2022 4:44 PM
To: Becky Haskell; Zach Comino
Cc: Amber Griffin
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, May 12, 2022 3:33 PM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

FYI

Miriam Morales

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, May 12, 2022 3:02 PM
To: Miriam Morales <Miriam_Morales@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) 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.

Miriam,

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: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Wednesday, May 11, 2022 3:45 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] Yates AS Fee Battery (nAPP2111230058) 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.

Yates AS Fee Battery
K-25-18S-25E; Eddy County, NM
nAPP2111230058

Sampling will begin at 10:00 a.m. on Tuesday, May 17, 2022.

Thank you,

Miriam Morales

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

May 28, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Yates As Fee Battery

OrderNo.: 2105949

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 27 sample(s) on 5/21/2021 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-001

Collection Date: 5/19/2021 7:50:00 AM

Client Sample ID: TP1-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	900	60		mg/Kg	20	5/24/2021 5:06:31 PM	60211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	46	9.9		mg/Kg	1	5/24/2021 8:16:16 PM	60191
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	5/24/2021 8:16:16 PM	60191
Surr: DNOP	139	70-130	S	%Rec	1	5/24/2021 8:16:16 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2021 2:58:23 PM	60185
Surr: BFB	88.6	70-130		%Rec	1	5/24/2021 2:58:23 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 2:58:23 PM	60185
Toluene	ND	0.048		mg/Kg	1	5/24/2021 2:58:23 PM	60185
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2021 2:58:23 PM	60185
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2021 2:58:23 PM	60185
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	5/24/2021 2:58:23 PM	60185

Lab ID: 2105949-002

Collection Date: 5/19/2021 7:55:00 AM

Client Sample ID: TP1-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1000	60		mg/Kg	20	5/25/2021 2:10:05 PM	60237
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	720	200		mg/Kg	20	5/22/2021 12:45:18 PM	60191
Motor Oil Range Organics (MRO)	1700	980		mg/Kg	20	5/22/2021 12:45:18 PM	60191
Surr: DNOP	0	70-130	S	%Rec	20	5/22/2021 12:45:18 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 4:32:36 PM	60185
Surr: BFB	87.6	70-130		%Rec	1	5/24/2021 4:32:36 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/24/2021 4:32:36 PM	60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 4:32:36 PM	60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 4:32:36 PM	60185
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2021 4:32:36 PM	60185
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	5/24/2021 4:32:36 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-003

Collection Date: 5/19/2021 8:00:00 AM

Client Sample ID: TP2-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1000	60		mg/Kg	20	5/25/2021 2:22:29 PM	60237
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	53	9.5		mg/Kg	1	5/25/2021 11:30:07 AM	60191
Motor Oil Range Organics (MRO)	330	47		mg/Kg	1	5/25/2021 11:30:07 AM	60191
Surr: DNOP	129	70-130		%Rec	1	5/25/2021 11:30:07 AM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 4:56:11 PM	60185
Surr: BFB	88.1	70-130		%Rec	1	5/24/2021 4:56:11 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 4:56:11 PM	60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 4:56:11 PM	60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 4:56:11 PM	60185
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2021 4:56:11 PM	60185
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	5/24/2021 4:56:11 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-004

Collection Date: 5/19/2021 8:10:00 AM

Client Sample ID: TP2-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	220	60		mg/Kg	20	5/25/2021 2:34:53 PM	60237
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	290	86		mg/Kg	10	5/24/2021 7:36:20 PM	60191
Motor Oil Range Organics (MRO)	940	430		mg/Kg	10	5/24/2021 7:36:20 PM	60191
Surr: DNOP	0	70-130	S	%Rec	10	5/24/2021 7:36:20 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 5:19:41 PM	60185
Surr: BFB	87.9	70-130		%Rec	1	5/24/2021 5:19:41 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 5:19:41 PM	60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 5:19:41 PM	60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 5:19:41 PM	60185
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2021 5:19:41 PM	60185
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	5/24/2021 5:19:41 PM	60185

Lab ID: 2105949-005

Collection Date: 5/19/2021 8:50:00 AM

Client Sample ID: TP3-11

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1900	61		mg/Kg	20	5/25/2021 2:47:18 PM	60237
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/22/2021 1:15:21 PM	60191
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2021 1:15:21 PM	60191
Surr: DNOP	87.4	70-130		%Rec	1	5/22/2021 1:15:21 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/24/2021 5:43:33 PM	60185
Surr: BFB	88.6	70-130		%Rec	1	5/24/2021 5:43:33 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/24/2021 5:43:33 PM	60185
Toluene	ND	0.046		mg/Kg	1	5/24/2021 5:43:33 PM	60185
Ethylbenzene	ND	0.046		mg/Kg	1	5/24/2021 5:43:33 PM	60185
Xylenes, Total	ND	0.092		mg/Kg	1	5/24/2021 5:43:33 PM	60185
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	5/24/2021 5:43:33 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-006

Collection Date: 5/19/2021 8:55:00 AM

Client Sample ID: TP3-14

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	60		mg/Kg	20	5/25/2021 10:13:52 PM	60253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	20	9.4		mg/Kg	1	5/24/2021 8:36:23 PM	60191
Motor Oil Range Organics (MRO)	57	47		mg/Kg	1	5/24/2021 8:36:23 PM	60191
Surr: DNOP	98.9	70-130		%Rec	1	5/24/2021 8:36:23 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2021 6:07:05 PM	60185
Surr: BFB	91.4	70-130		%Rec	1	5/24/2021 6:07:05 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 6:07:05 PM	60185
Toluene	ND	0.048		mg/Kg	1	5/24/2021 6:07:05 PM	60185
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2021 6:07:05 PM	60185
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2021 6:07:05 PM	60185
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/24/2021 6:07:05 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-007

Collection Date: 5/19/2021 9:00:00 AM

Client Sample ID: TP4-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/25/2021 10:26:16 PM	60253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	50	9.0		mg/Kg	1	5/24/2021 8:56:22 PM	60191
Motor Oil Range Organics (MRO)	180	45		mg/Kg	1	5/24/2021 8:56:22 PM	60191
Surr: DNOP	105	70-130		%Rec	1	5/24/2021 8:56:22 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 6:30:34 PM	60185
Surr: BFB	91.4	70-130		%Rec	1	5/24/2021 6:30:34 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/24/2021 6:30:34 PM	60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 6:30:34 PM	60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 6:30:34 PM	60185
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2021 6:30:34 PM	60185
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/24/2021 6:30:34 PM	60185

Lab ID: 2105949-008

Collection Date: 5/19/2021 9:10:00 AM

Client Sample ID: TP5-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	620	60		mg/Kg	20	5/25/2021 11:03:30 PM	60253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/22/2021 1:45:12 PM	60191
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/22/2021 1:45:12 PM	60191
Surr: DNOP	119	70-130		%Rec	1	5/22/2021 1:45:12 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/24/2021 6:54:25 PM	60185
Surr: BFB	92.0	70-130		%Rec	1	5/24/2021 6:54:25 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/24/2021 6:54:25 PM	60185
Toluene	ND	0.050		mg/Kg	1	5/24/2021 6:54:25 PM	60185
Ethylbenzene	ND	0.050		mg/Kg	1	5/24/2021 6:54:25 PM	60185
Xylenes, Total	ND	0.10		mg/Kg	1	5/24/2021 6:54:25 PM	60185
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/24/2021 6:54:25 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-009

Collection Date: 5/19/2021 9:15:00 AM

Client Sample ID: TP5-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	930	60		mg/Kg	20	5/25/2021 11:15:54 PM	60253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	320	49		mg/Kg	5	5/24/2021 7:56:15 PM	60191
Motor Oil Range Organics (MRO)	760	240		mg/Kg	5	5/24/2021 7:56:15 PM	60191
Surr: DNOP	108	70-130		%Rec	5	5/24/2021 7:56:15 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2021 7:18:01 PM	60185
Surr: BFB	90.3	70-130		%Rec	1	5/24/2021 7:18:01 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 7:18:01 PM	60185
Toluene	ND	0.048		mg/Kg	1	5/24/2021 7:18:01 PM	60185
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2021 7:18:01 PM	60185
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2021 7:18:01 PM	60185
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/24/2021 7:18:01 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-010

Collection Date: 5/19/2021 9:30:00 AM

Client Sample ID: TP6-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	60		mg/Kg	20	5/25/2021 11:28:18 PM	60253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/22/2021 2:05:17 PM	60191
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2021 2:05:17 PM	60191
Surr: DNOP	116	70-130		%Rec	1	5/22/2021 2:05:17 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 7:41:29 PM	60185
Surr: BFB	89.9	70-130		%Rec	1	5/24/2021 7:41:29 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 7:41:29 PM	60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 7:41:29 PM	60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 7:41:29 PM	60185
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2021 7:41:29 PM	60185
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/24/2021 7:41:29 PM	60185

Lab ID: 2105949-011

Collection Date: 5/19/2021 9:35:00 AM

Client Sample ID: TP6-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1500	60		mg/Kg	20	5/25/2021 11:40:42 PM	60253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/22/2021 2:15:43 PM	60191
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2021 2:15:43 PM	60191
Surr: DNOP	100	70-130		%Rec	1	5/22/2021 2:15:43 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2021 8:04:55 PM	60185
Surr: BFB	92.0	70-130		%Rec	1	5/24/2021 8:04:55 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 8:04:55 PM	60185
Toluene	ND	0.048		mg/Kg	1	5/24/2021 8:04:55 PM	60185
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2021 8:04:55 PM	60185
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2021 8:04:55 PM	60185
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/24/2021 8:04:55 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-012

Collection Date: 5/19/2021 9:45:00 AM

Client Sample ID: TP7-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	450	60		mg/Kg	20	5/25/2021 11:53:06 PM	60253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/22/2021 2:26:11 PM	60191
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/22/2021 2:26:11 PM	60191
Surr: DNOP	127	70-130		%Rec	1	5/22/2021 2:26:11 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 9:15:51 PM	60185
Surr: BFB	89.6	70-130		%Rec	1	5/24/2021 9:15:51 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 9:15:51 PM	60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 9:15:51 PM	60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 9:15:51 PM	60185
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2021 9:15:51 PM	60185
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	5/24/2021 9:15:51 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-013

Collection Date: 5/19/2021 9:50:00 AM

Client Sample ID: TP7-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	380	60		mg/Kg	20	5/26/2021 8:38:48 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/22/2021 2:36:44 PM	60191
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2021 2:36:44 PM	60191
Surr: DNOP	123	70-130		%Rec	1	5/22/2021 2:36:44 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 9:39:30 PM	60185
Surr: BFB	89.7	70-130		%Rec	1	5/24/2021 9:39:30 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/24/2021 9:39:30 PM	60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 9:39:30 PM	60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 9:39:30 PM	60185
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2021 9:39:30 PM	60185
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/24/2021 9:39:30 PM	60185

Lab ID: 2105949-014

Collection Date: 5/19/2021 9:55:00 AM

Client Sample ID: TP8-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1100	60		mg/Kg	20	5/26/2021 8:51:13 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/22/2021 2:47:18 PM	60191
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2021 2:47:18 PM	60191
Surr: DNOP	114	70-130		%Rec	1	5/22/2021 2:47:18 PM	60191
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 10:03:09 PM	60185
Surr: BFB	87.2	70-130		%Rec	1	5/24/2021 10:03:09 PM	60185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 10:03:09 PM	60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 10:03:09 PM	60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 10:03:09 PM	60185
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2021 10:03:09 PM	60185
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	5/24/2021 10:03:09 PM	60185

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-015

Collection Date: 5/19/2021 10:00:00 AM

Client Sample ID: TP8-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	670	61		mg/Kg	20	5/26/2021 9:28:26 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/22/2021 3:28:03 PM	60192
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/22/2021 3:28:03 PM	60192
Surr: DNOP	95.4	70-130		%Rec	1	5/22/2021 3:28:03 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2021 4:18:13 PM	60188
Surr: BFB	91.2	70-130		%Rec	1	5/25/2021 4:18:13 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/25/2021 4:18:13 PM	60188
Toluene	ND	0.050		mg/Kg	1	5/25/2021 4:18:13 PM	60188
Ethylbenzene	ND	0.050		mg/Kg	1	5/25/2021 4:18:13 PM	60188
Xylenes, Total	ND	0.10		mg/Kg	1	5/25/2021 4:18:13 PM	60188
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/25/2021 4:18:13 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-016

Collection Date: 5/19/2021 10:05:00 AM

Client Sample ID: TP9-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	460	60		mg/Kg	20	5/26/2021 10:05:39 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/22/2021 3:58:23 PM	60192
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2021 3:58:23 PM	60192
Surr: DNOP	87.4	70-130		%Rec	1	5/22/2021 3:58:23 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2021 5:28:39 PM	60188
Surr: BFB	89.8	70-130		%Rec	1	5/25/2021 5:28:39 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/25/2021 5:28:39 PM	60188
Toluene	ND	0.049		mg/Kg	1	5/25/2021 5:28:39 PM	60188
Ethylbenzene	ND	0.049		mg/Kg	1	5/25/2021 5:28:39 PM	60188
Xylenes, Total	ND	0.098		mg/Kg	1	5/25/2021 5:28:39 PM	60188
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/25/2021 5:28:39 PM	60188

Lab ID: 2105949-017

Collection Date: 5/19/2021 10:40:00 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	1300	60		mg/Kg	20	5/26/2021 10:42:52 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	5/22/2021 4:08:26 PM	60192
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	5/22/2021 4:08:26 PM	60192
Surr: DNOP	101	70-130		%Rec	1	5/22/2021 4:08:26 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2021 6:39:29 PM	60188
Surr: BFB	91.9	70-130		%Rec	1	5/25/2021 6:39:29 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/25/2021 6:39:29 PM	60188
Toluene	ND	0.049		mg/Kg	1	5/25/2021 6:39:29 PM	60188
Ethylbenzene	ND	0.049		mg/Kg	1	5/25/2021 6:39:29 PM	60188
Xylenes, Total	ND	0.098		mg/Kg	1	5/25/2021 6:39:29 PM	60188
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/25/2021 6:39:29 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-018

Collection Date: 5/19/2021 10:45:00 AM

Client Sample ID: TP10-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	620	60		mg/Kg	20	5/26/2021 10:55:17 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	5/22/2021 4:18:28 PM	60192
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/22/2021 4:18:28 PM	60192
Surr: DNOP	97.7	70-130		%Rec	1	5/22/2021 4:18:28 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/25/2021 7:02:56 PM	60188
Surr: BFB	91.3	70-130		%Rec	1	5/25/2021 7:02:56 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/25/2021 7:02:56 PM	60188
Toluene	ND	0.048		mg/Kg	1	5/25/2021 7:02:56 PM	60188
Ethylbenzene	ND	0.048		mg/Kg	1	5/25/2021 7:02:56 PM	60188
Xylenes, Total	ND	0.096		mg/Kg	1	5/25/2021 7:02:56 PM	60188
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/25/2021 7:02:56 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-019

Collection Date: 5/19/2021 10:50:00 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	620	60		mg/Kg	20	5/26/2021 11:07:41 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	720	91		mg/Kg	10	5/22/2021 4:28:29 PM	60192
Motor Oil Range Organics (MRO)	650	450		mg/Kg	10	5/22/2021 4:28:29 PM	60192
Surr: DNOP	0	70-130	S	%Rec	10	5/22/2021 4:28:29 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	5/25/2021 7:26:29 PM	60188
Surr: BFB	92.2	70-130	D	%Rec	5	5/25/2021 7:26:29 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/25/2021 7:26:29 PM	60188
Toluene	ND	0.25	D	mg/Kg	5	5/25/2021 7:26:29 PM	60188
Ethylbenzene	ND	0.25	D	mg/Kg	5	5/25/2021 7:26:29 PM	60188
Xylenes, Total	ND	0.49	D	mg/Kg	5	5/25/2021 7:26:29 PM	60188
Surr: 4-Bromofluorobenzene	102	70-130	D	%Rec	5	5/25/2021 7:26:29 PM	60188

Lab ID: 2105949-020

Collection Date: 5/19/2021 10:55:00 AM

Client Sample ID: TP11-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	870	60		mg/Kg	20	5/26/2021 11:20:06 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/22/2021 4:38:28 PM	60192
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2021 4:38:28 PM	60192
Surr: DNOP	93.5	70-130		%Rec	1	5/22/2021 4:38:28 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/25/2021 7:50:02 PM	60188
Surr: BFB	91.7	70-130		%Rec	1	5/25/2021 7:50:02 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/25/2021 7:50:02 PM	60188
Toluene	ND	0.048		mg/Kg	1	5/25/2021 7:50:02 PM	60188
Ethylbenzene	ND	0.048		mg/Kg	1	5/25/2021 7:50:02 PM	60188
Xylenes, Total	ND	0.096		mg/Kg	1	5/25/2021 7:50:02 PM	60188
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/25/2021 7:50:02 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-021

Collection Date: 5/19/2021 11:30:00 AM

Client Sample ID: TP12-13

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5400	300		mg/Kg	100	5/26/2021 9:03:09 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/22/2021 4:48:27 PM	60192
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2021 4:48:27 PM	60192
Surr: DNOP	99.9	70-130		%Rec	1	5/22/2021 4:48:27 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2021 8:13:46 PM	60188
Surr: BFB	91.5	70-130		%Rec	1	5/25/2021 8:13:46 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/25/2021 8:13:46 PM	60188
Toluene	ND	0.049		mg/Kg	1	5/25/2021 8:13:46 PM	60188
Ethylbenzene	ND	0.049		mg/Kg	1	5/25/2021 8:13:46 PM	60188
Xylenes, Total	ND	0.099		mg/Kg	1	5/25/2021 8:13:46 PM	60188
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/25/2021 8:13:46 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-022

Collection Date: 5/19/2021 11:35:00 AM

Client Sample ID: TP13-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	110	60		mg/Kg	20	5/26/2021 11:44:55 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/22/2021 4:58:24 PM	60192
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/22/2021 4:58:24 PM	60192
Surr: DNOP	84.8	70-130		%Rec	1	5/22/2021 4:58:24 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/25/2021 9:47:24 PM	60188
Surr: BFB	89.8	70-130		%Rec	1	5/25/2021 9:47:24 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/25/2021 9:47:24 PM	60188
Toluene	ND	0.046		mg/Kg	1	5/25/2021 9:47:24 PM	60188
Ethylbenzene	ND	0.046		mg/Kg	1	5/25/2021 9:47:24 PM	60188
Xylenes, Total	ND	0.092		mg/Kg	1	5/25/2021 9:47:24 PM	60188
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/25/2021 9:47:24 PM	60188

Lab ID: 2105949-023

Collection Date: 5/19/2021 11:55:00 AM

Client Sample ID: TP14-13

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3500	150		mg/Kg	50	5/26/2021 9:15:34 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/22/2021 5:08:18 PM	60192
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2021 5:08:18 PM	60192
Surr: DNOP	102	70-130		%Rec	1	5/22/2021 5:08:18 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2021 10:10:48 PM	60188
Surr: BFB	90.1	70-130		%Rec	1	5/25/2021 10:10:48 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/25/2021 10:10:48 PM	60188
Toluene	ND	0.050		mg/Kg	1	5/25/2021 10:10:48 PM	60188
Ethylbenzene	ND	0.050		mg/Kg	1	5/25/2021 10:10:48 PM	60188
Xylenes, Total	ND	0.10		mg/Kg	1	5/25/2021 10:10:48 PM	60188
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/25/2021 10:10:48 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-024

Collection Date: 5/19/2021 12:00:00 PM

Client Sample ID: TP15-2

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	5/26/2021 12:09:43 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/22/2021 5:18:12 PM	60192
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/22/2021 5:18:12 PM	60192
Surr: DNOP	76.1	70-130		%Rec	1	5/22/2021 5:18:12 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/25/2021 10:34:09 PM	60188
Surr: BFB	92.4	70-130		%Rec	1	5/25/2021 10:34:09 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/25/2021 10:34:09 PM	60188
Toluene	ND	0.048		mg/Kg	1	5/25/2021 10:34:09 PM	60188
Ethylbenzene	ND	0.048		mg/Kg	1	5/25/2021 10:34:09 PM	60188
Xylenes, Total	ND	0.096		mg/Kg	1	5/25/2021 10:34:09 PM	60188
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/25/2021 10:34:09 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-025

Collection Date: 5/19/2021 12:30:00 PM

Client Sample ID: TP16-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4500	150		mg/Kg	50	5/26/2021 9:27:58 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/22/2021 5:28:04 PM	60192
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2021 5:28:04 PM	60192
Surr: DNOP	104	70-130		%Rec	1	5/22/2021 5:28:04 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2021 10:57:36 PM	60188
Surr: BFB	90.3	70-130		%Rec	1	5/25/2021 10:57:36 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/25/2021 10:57:36 PM	60188
Toluene	ND	0.050		mg/Kg	1	5/25/2021 10:57:36 PM	60188
Ethylbenzene	ND	0.050		mg/Kg	1	5/25/2021 10:57:36 PM	60188
Xylenes, Total	ND	0.099		mg/Kg	1	5/25/2021 10:57:36 PM	60188
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/25/2021 10:57:36 PM	60188

Lab ID: 2105949-026

Collection Date: 5/19/2021 12:35:00 PM

Client Sample ID: TP16-13

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	5/26/2021 9:40:22 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/22/2021 5:37:58 PM	60192
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2021 5:37:58 PM	60192
Surr: DNOP	103	70-130		%Rec	1	5/22/2021 5:37:58 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/25/2021 11:21:15 PM	60188
Surr: BFB	91.3	70-130		%Rec	1	5/25/2021 11:21:15 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/25/2021 11:21:15 PM	60188
Toluene	ND	0.047		mg/Kg	1	5/25/2021 11:21:15 PM	60188
Ethylbenzene	ND	0.047		mg/Kg	1	5/25/2021 11:21:15 PM	60188
Xylenes, Total	ND	0.094		mg/Kg	1	5/25/2021 11:21:15 PM	60188
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/25/2021 11:21:15 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105949

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105949

Project: Yates As Fee Battery

Lab ID: 2105949-027

Collection Date: 5/19/2021 12:45:00 PM

Client Sample ID: TP17-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	580	60		mg/Kg	20	5/26/2021 1:11:44 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/22/2021 5:47:52 PM	60192
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/22/2021 5:47:52 PM	60192
Surr: DNOP	90.7	70-130		%Rec	1	5/22/2021 5:47:52 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/25/2021 11:44:57 PM	60188
Surr: BFB	88.8	70-130		%Rec	1	5/25/2021 11:44:57 PM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/25/2021 11:44:57 PM	60188
Toluene	ND	0.046		mg/Kg	1	5/25/2021 11:44:57 PM	60188
Ethylbenzene	ND	0.046		mg/Kg	1	5/25/2021 11:44:57 PM	60188
Xylenes, Total	ND	0.092		mg/Kg	1	5/25/2021 11:44:57 PM	60188
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	5/25/2021 11:44:57 PM	60188

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2105949

28-May-21

Client: GHD
Project: Yates As Fee Battery

Sample ID: MB-60211	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60211	RunNo: 77619								
Prep Date: 5/24/2021	Analysis Date: 5/24/2021	SeqNo: 2755203 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60211	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60211	RunNo: 77619								
Prep Date: 5/24/2021	Analysis Date: 5/24/2021	SeqNo: 2755204 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: MB-60237	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60237	RunNo: 77623								
Prep Date: 5/25/2021	Analysis Date: 5/25/2021	SeqNo: 2756623 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60237	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60237	RunNo: 77623								
Prep Date: 5/25/2021	Analysis Date: 5/25/2021	SeqNo: 2756624 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Sample ID: MB-60253	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60253	RunNo: 77623								
Prep Date: 5/25/2021	Analysis Date: 5/25/2021	SeqNo: 2756664 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60253	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60253	RunNo: 77623								
Prep Date: 5/25/2021	Analysis Date: 5/25/2021	SeqNo: 2756665 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

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

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#: 2105949

28-May-21

Client: GHD
Project: Yates As Fee Battery

Sample ID: MB-60262	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60262	RunNo: 77685								
Prep Date: 5/26/2021	Analysis Date: 5/26/2021	SeqNo: 2757775	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60262	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60262	RunNo: 77685								
Prep Date: 5/26/2021	Analysis Date: 5/26/2021	SeqNo: 2757776	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

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

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

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

WO#: 2105949

28-May-21

Client: GHD
Project: Yates As Fee Battery

Sample ID: MB-60191	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60191	RunNo: 77590								
Prep Date: 5/21/2021	Analysis Date: 5/22/2021	SeqNo: 2753997 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		128	70	130			

Sample ID: MB-60192	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60192	RunNo: 77590								
Prep Date: 5/21/2021	Analysis Date: 5/22/2021	SeqNo: 2753998 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	70	130			

Sample ID: LCS-60191	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60191	RunNo: 77590								
Prep Date: 5/21/2021	Analysis Date: 5/22/2021	SeqNo: 2754004 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	127	68.9	141			
Surr: DNOP	7.2		5.000		145	70	130			S

Sample ID: LCS-60192	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60192	RunNo: 77590								
Prep Date: 5/21/2021	Analysis Date: 5/22/2021	SeqNo: 2754005 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	91.4	68.9	141			
Surr: DNOP	4.3		5.000		86.9	70	130			

Sample ID: 2105949-015AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP8-4	Batch ID: 60192	RunNo: 77590								
Prep Date: 5/21/2021	Analysis Date: 5/22/2021	SeqNo: 2754009 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.9	49.36	0	82.2	15	184			
Surr: DNOP	4.0		4.936		80.4	70	130			

Qualifiers:

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

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#: 2105949

28-May-21

Client: GHD

Project: Yates As Fee Battery

Sample ID: 2105949-015AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: TP8-4		Batch ID: 60192		RunNo: 77590						
Prep Date: 5/21/2021		Analysis Date: 5/22/2021		SeqNo: 2754012		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.4	46.99	0	89.7	15	184	3.74	23.9	
Surr: DNOP	4.2		4.699		90.4	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#: 2105949

28-May-21

Client: GHD
Project: Yates As Fee Battery

Sample ID: mb-60185	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60185			RunNo: 77617						
Prep Date: 5/21/2021	Analysis Date: 5/24/2021			SeqNo: 2755051		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.2	70	130			

Sample ID: lcs-60185	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60185			RunNo: 77617						
Prep Date: 5/21/2021	Analysis Date: 5/24/2021			SeqNo: 2755052		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	95.4	78.6	131			
Surr: BFB	1000		1000		100	70	130			

Sample ID: mb-60213	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60213			RunNo: 77631						
Prep Date: 5/24/2021	Analysis Date: 5/25/2021			SeqNo: 2756716		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.4	70	130			

Sample ID: lcs-60213	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60213			RunNo: 77631						
Prep Date: 5/24/2021	Analysis Date: 5/25/2021			SeqNo: 2756717		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: mb-60188	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60188			RunNo: 77631						
Prep Date: 5/21/2021	Analysis Date: 5/25/2021			SeqNo: 2756720		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.0	70	130			

Sample ID: lcs-60188	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60188			RunNo: 77631						
Prep Date: 5/21/2021	Analysis Date: 5/25/2021			SeqNo: 2756721		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.6	78.6	131			
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

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#: 2105949

28-May-21

Client: GHD
Project: Yates As Fee Battery

Sample ID: 2105949-015ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP8-4	Batch ID: 60188	RunNo: 77631								
Prep Date: 5/21/2021	Analysis Date: 5/25/2021	SeqNo: 2756723	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.27	0	92.2	61.3	114			
Surr: BFB	970		970.9		99.8	70	130			

Sample ID: 2105949-015amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP8-4	Batch ID: 60188	RunNo: 77631								
Prep Date: 5/21/2021	Analysis Date: 5/25/2021	SeqNo: 2756724	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.93	0	92.7	61.3	114	3.18	20	
Surr: BFB	990		997.0		99.4	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#: 2105949

28-May-21

Client: GHD
Project: Yates As Fee Battery

Sample ID: mb-60185	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60185	RunNo: 77617								
Prep Date: 5/21/2021	Analysis Date: 5/24/2021	SeqNo: 2755095	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		103	70	130			

Sample ID: LCS-60185	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60185	RunNo: 77617								
Prep Date: 5/21/2021	Analysis Date: 5/24/2021	SeqNo: 2755096	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: mb-60213	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60213	RunNo: 77631								
Prep Date: 5/24/2021	Analysis Date: 5/25/2021	SeqNo: 2756760	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: LCS-60213	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60213	RunNo: 77631								
Prep Date: 5/24/2021	Analysis Date: 5/25/2021	SeqNo: 2756761	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: mb-60188	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60188	RunNo: 77631								
Prep Date: 5/21/2021	Analysis Date: 5/25/2021	SeqNo: 2756764	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
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#: 2105949

28-May-21

Client: GHD
Project: Yates As Fee Battery

Sample ID: mb-60188	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60188	RunNo: 77631								
Prep Date: 5/21/2021	Analysis Date: 5/25/2021	SeqNo: 2756764		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

Sample ID: LCS-60188	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60188	RunNo: 77631								
Prep Date: 5/21/2021	Analysis Date: 5/25/2021	SeqNo: 2756765		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.93	0.050	1.000	0	92.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

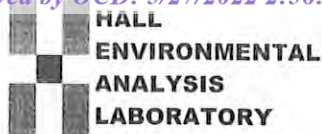
Sample ID: 2105949-016ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP9-2	Batch ID: 60188	RunNo: 77631								
Prep Date: 5/21/2021	Analysis Date: 5/25/2021	SeqNo: 2756768		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9515	0	92.2	76.3	120			
Toluene	0.93	0.048	0.9515	0	97.7	78.5	120			
Ethylbenzene	0.92	0.048	0.9515	0	97.0	78.1	124			
Xylenes, Total	2.8	0.095	2.854	0	98.3	79.3	125			
Surr: 4-Bromofluorobenzene	0.97		0.9515		102	70	130			

Sample ID: 2105949-016amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP9-2	Batch ID: 60188	RunNo: 77631								
Prep Date: 5/21/2021	Analysis Date: 5/25/2021	SeqNo: 2756769		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9560	0	92.0	80	120	0.292	20	
Toluene	0.93	0.048	0.9560	0	97.6	80	120	0.344	20	
Ethylbenzene	0.94	0.048	0.9560	0	98.3	80	120	1.77	20	
Xylenes, Total	2.8	0.096	2.868	0	99.0	80	120	1.17	20	
Surr: 4-Bromofluorobenzene	0.98		0.9560		102	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2105949

RcptNo: 1

Received By: Juan Rojas

5/21/2021 7:30:00 AM

Juan Rojas

Completed By: Cheyenne Cason

5/21/2021 8:24:50 AM

Cason

Reviewed By:

*SPA 5.21.21*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:

IO
5-21-21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				



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

July 19, 2021

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

RE: Yates AS Fee Battery

OrderNo.: 2107284

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 16 sample(s) on 7/8/2021 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284**Lab ID:** 2107284-001**Collection Date:** 7/6/2021 9:35:00 AM**Client Sample ID:** TP2-13**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5400	300		mg/Kg	100	7/14/2021 1:18:15 AM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1000	94		mg/Kg	10	7/12/2021 10:25:39 AM	61226
Motor Oil Range Organics (MRO)	540	470		mg/Kg	10	7/12/2021 10:25:39 AM	61226
Surr: DNOP	0	70-130	S	%Rec	10	7/12/2021 10:25:39 AM	61226
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	7/12/2021 4:06:00 PM	61201
Surr: BFB	157	70-130	S	%Rec	5	7/12/2021 4:06:00 PM	61201
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	7/12/2021 4:06:00 PM	61201
Toluene	ND	0.24		mg/Kg	5	7/12/2021 4:06:00 PM	61201
Ethylbenzene	ND	0.24		mg/Kg	5	7/12/2021 4:06:00 PM	61201
Xylenes, Total	ND	0.48		mg/Kg	5	7/12/2021 4:06:00 PM	61201
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	5	7/12/2021 4:06:00 PM	61201

Lab ID: 2107284-002**Collection Date:** 7/6/2021 9:45:00 AM**Client Sample ID:** TP2-16**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	9100	300		mg/Kg	100	7/14/2021 1:30:39 AM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	840	95		mg/Kg	10	7/12/2021 2:02:26 PM	61226
Motor Oil Range Organics (MRO)	580	470		mg/Kg	10	7/12/2021 2:02:26 PM	61226
Surr: DNOP	0	70-130	S	%Rec	10	7/12/2021 2:02:26 PM	61226
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	140	24		mg/Kg	5	7/12/2021 4:46:00 PM	61201
Surr: BFB	389	70-130	S	%Rec	5	7/12/2021 4:46:00 PM	61201
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	7/12/2021 4:46:00 PM	61201
Toluene	ND	0.24		mg/Kg	5	7/12/2021 4:46:00 PM	61201
Ethylbenzene	2.4	0.24		mg/Kg	5	7/12/2021 4:46:00 PM	61201
Xylenes, Total	4.4	0.47		mg/Kg	5	7/12/2021 4:46:00 PM	61201
Surr: 4-Bromofluorobenzene	182	70-130	S	%Rec	5	7/12/2021 4:46:00 PM	61201

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284

Lab ID: 2107284-003

Collection Date: 7/6/2021 9:55:00 AM

Client Sample ID: TP2-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	7400	300		mg/Kg	100	7/14/2021 1:43:03 AM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1200	91		mg/Kg	10	7/12/2021 2:26:59 PM	61226
Motor Oil Range Organics (MRO)	690	450		mg/Kg	10	7/12/2021 2:26:59 PM	61226
Surr: DNOP	0	70-130	S	%Rec	10	7/12/2021 2:26:59 PM	61226
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	93	24		mg/Kg	5	7/12/2021 5:06:00 PM	61201
Surr: BFB	323	70-130	S	%Rec	5	7/12/2021 5:06:00 PM	61201
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	7/12/2021 5:06:00 PM	61201
Toluene	ND	0.24		mg/Kg	5	7/12/2021 5:06:00 PM	61201
Ethylbenzene	1.7	0.24		mg/Kg	5	7/12/2021 5:06:00 PM	61201
Xylenes, Total	2.2	0.48		mg/Kg	5	7/12/2021 5:06:00 PM	61201
Surr: 4-Bromofluorobenzene	169	70-130	S	%Rec	5	7/12/2021 5:06:00 PM	61201

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284**Lab ID:** 2107284-004**Collection Date:** 7/6/2021 10:20:00 AM**Client Sample ID:** TP3-16**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	60		mg/Kg	20	7/13/2021 11:27:04 AM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/12/2021 11:37:13 AM	61226
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/12/2021 11:37:13 AM	61226
Surr: DNOP	70.8	70-130		%Rec	1	7/12/2021 11:37:13 AM	61226
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/12/2021 5:46:00 PM	61201
Surr: BFB	115	70-130		%Rec	1	7/12/2021 5:46:00 PM	61201
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	7/12/2021 5:46:00 PM	61201
Toluene	ND	0.047		mg/Kg	1	7/12/2021 5:46:00 PM	61201
Ethylbenzene	ND	0.047		mg/Kg	1	7/12/2021 5:46:00 PM	61201
Xylenes, Total	ND	0.095		mg/Kg	1	7/12/2021 5:46:00 PM	61201
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	7/12/2021 5:46:00 PM	61201

Lab ID: 2107284-005**Collection Date:** 7/6/2021 10:30:00 AM**Client Sample ID:** TP3-20**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1900	60		mg/Kg	20	7/16/2021 8:48:49 AM	61363

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284

Lab ID: 2107284-006

Collection Date: 7/6/2021 10:50:00 AM

Client Sample ID: TP1-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	920	60		mg/Kg	20	7/13/2021 11:39:28 AM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	79	18		mg/Kg	2	7/13/2021 1:52:49 PM	61231
Motor Oil Range Organics (MRO)	150	91		mg/Kg	2	7/13/2021 1:52:49 PM	61231
Surr: DNOP	103	70-130		%Rec	2	7/13/2021 1:52:49 PM	61231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/10/2021 6:42:00 PM	61209
Surr: BFB	106	70-130		%Rec	1	7/10/2021 6:42:00 PM	61209
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	7/10/2021 6:42:00 PM	61209
Toluene	ND	0.049		mg/Kg	1	7/10/2021 6:42:00 PM	61209
Ethylbenzene	ND	0.049		mg/Kg	1	7/10/2021 6:42:00 PM	61209
Xylenes, Total	ND	0.099		mg/Kg	1	7/10/2021 6:42:00 PM	61209
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	7/10/2021 6:42:00 PM	61209

Lab ID: 2107284-007

Collection Date: 7/6/2021 12:40:00 PM

Client Sample ID: TP1-15

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1700	60		mg/Kg	20	7/13/2021 11:51:52 AM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/13/2021 3:34:46 PM	61231
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2021 3:34:46 PM	61231
Surr: DNOP	83.9	70-130		%Rec	1	7/13/2021 3:34:46 PM	61231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/10/2021 7:42:00 PM	61209
Surr: BFB	102	70-130		%Rec	1	7/10/2021 7:42:00 PM	61209
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	7/10/2021 7:42:00 PM	61209
Toluene	ND	0.048		mg/Kg	1	7/10/2021 7:42:00 PM	61209
Ethylbenzene	ND	0.048		mg/Kg	1	7/10/2021 7:42:00 PM	61209
Xylenes, Total	ND	0.097		mg/Kg	1	7/10/2021 7:42:00 PM	61209
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	7/10/2021 7:42:00 PM	61209

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284

Lab ID: 2107284-008

Collection Date: 7/6/2021 12:50:00 PM

Client Sample ID: TP1-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	61		mg/Kg	20	7/16/2021 9:01:13 AM	61363

Lab ID: 2107284-009

Collection Date: 7/6/2021 1:25:00 PM

Client Sample ID: TP5-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	860	59		mg/Kg	20	7/13/2021 12:04:16 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	7/13/2021 3:47:10 PM	61231
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/13/2021 3:47:10 PM	61231
Surr: DNOP	83.0	70-130		%Rec	1	7/13/2021 3:47:10 PM	61231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/10/2021 8:42:00 PM	61209
Surr: BFB	91.3	70-130		%Rec	1	7/10/2021 8:42:00 PM	61209
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	7/10/2021 8:42:00 PM	61209
Toluene	ND	0.047		mg/Kg	1	7/10/2021 8:42:00 PM	61209
Ethylbenzene	ND	0.047		mg/Kg	1	7/10/2021 8:42:00 PM	61209
Xylenes, Total	ND	0.094		mg/Kg	1	7/10/2021 8:42:00 PM	61209
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	7/10/2021 8:42:00 PM	61209

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284

Lab ID: 2107284-010

Collection Date: 7/6/2021 2:00:00 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	640	61		mg/Kg	20	7/13/2021 12:16:40 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/13/2021 3:59:43 PM	61231
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/13/2021 3:59:43 PM	61231
Surr: DNOP	82.1	70-130		%Rec	1	7/13/2021 3:59:43 PM	61231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/10/2021 9:02:00 PM	61209
Surr: BFB	95.1	70-130		%Rec	1	7/10/2021 9:02:00 PM	61209
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	7/10/2021 9:02:00 PM	61209
Toluene	ND	0.047		mg/Kg	1	7/10/2021 9:02:00 PM	61209
Ethylbenzene	ND	0.047		mg/Kg	1	7/10/2021 9:02:00 PM	61209
Xylenes, Total	ND	0.094		mg/Kg	1	7/10/2021 9:02:00 PM	61209
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	7/10/2021 9:02:00 PM	61209

Lab ID: 2107284-011

Collection Date: 7/6/2021 2:15:00 PM

Client Sample ID: TP4-6

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	7/13/2021 12:29:04 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	9.8	9.5		mg/Kg	1	7/13/2021 1:28:56 PM	61231
Motor Oil Range Organics (MRO)	53	47		mg/Kg	1	7/13/2021 1:28:56 PM	61231
Surr: DNOP	96.8	70-130		%Rec	1	7/13/2021 1:28:56 PM	61231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/10/2021 9:21:00 PM	61209
Surr: BFB	99.2	70-130		%Rec	1	7/10/2021 9:21:00 PM	61209
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	7/10/2021 9:21:00 PM	61209
Toluene	ND	0.050		mg/Kg	1	7/10/2021 9:21:00 PM	61209
Ethylbenzene	ND	0.050		mg/Kg	1	7/10/2021 9:21:00 PM	61209
Xylenes, Total	ND	0.10		mg/Kg	1	7/10/2021 9:21:00 PM	61209
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	7/10/2021 9:21:00 PM	61209

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284

Lab ID: 2107284-012

Collection Date: 7/6/2021 2:30:00 PM

Client Sample ID: TP4-12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	650	60		mg/Kg	20	7/13/2021 1:06:18 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	170	19		mg/Kg	2	7/13/2021 2:40:42 PM	61231
Motor Oil Range Organics (MRO)	330	93		mg/Kg	2	7/13/2021 2:40:42 PM	61231
Surr: DNOP	101	70-130		%Rec	2	7/13/2021 2:40:42 PM	61231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/10/2021 9:41:00 PM	61209
Surr: BFB	95.3	70-130		%Rec	1	7/10/2021 9:41:00 PM	61209
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	7/10/2021 9:41:00 PM	61209
Toluene	ND	0.047		mg/Kg	1	7/10/2021 9:41:00 PM	61209
Ethylbenzene	ND	0.047		mg/Kg	1	7/10/2021 9:41:00 PM	61209
Xylenes, Total	ND	0.093		mg/Kg	1	7/10/2021 9:41:00 PM	61209
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	7/10/2021 9:41:00 PM	61209

Lab ID: 2107284-013

Collection Date: 7/6/2021 2:40:00 PM

Client Sample ID: TP4-14

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	570	60		mg/Kg	20	7/16/2021 9:13:38 AM	61363
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 1:34:03 PM	61329
Surr: BFB	95.3	70-130		%Rec	1	7/16/2021 1:34:03 PM	61329
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	7/16/2021 3:43:35 PM	61352
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/16/2021 3:43:35 PM	61352
Surr: DNOP	110	70-130		%Rec	1	7/16/2021 3:43:35 PM	61352

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284**Lab ID:** 2107284-014**Collection Date:** 7/6/2021 3:30:00 PM**Client Sample ID:** TP6-12**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	60		mg/Kg	20	7/13/2021 1:18:42 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/13/2021 4:12:10 PM	61231
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/13/2021 4:12:10 PM	61231
Surr: DNOP	82.1	70-130		%Rec	1	7/13/2021 4:12:10 PM	61231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/10/2021 10:01:00 PM	61209
Surr: BFB	95.9	70-130		%Rec	1	7/10/2021 10:01:00 PM	61209
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	7/10/2021 10:01:00 PM	61209
Toluene	ND	0.049		mg/Kg	1	7/10/2021 10:01:00 PM	61209
Ethylbenzene	ND	0.049		mg/Kg	1	7/10/2021 10:01:00 PM	61209
Xylenes, Total	ND	0.098		mg/Kg	1	7/10/2021 10:01:00 PM	61209
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	7/10/2021 10:01:00 PM	61209

Lab ID: 2107284-015**Collection Date:** 7/6/2021 3:45:00 PM**Client Sample ID:** TP6-14**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	700	60		mg/Kg	20	7/13/2021 1:31:06 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	7/13/2021 4:24:43 PM	61231
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	7/13/2021 4:24:43 PM	61231
Surr: DNOP	82.7	70-130		%Rec	1	7/13/2021 4:24:43 PM	61231
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/10/2021 10:21:00 PM	61209
Surr: BFB	99.6	70-130		%Rec	1	7/10/2021 10:21:00 PM	61209
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	7/10/2021 10:21:00 PM	61209
Toluene	ND	0.047		mg/Kg	1	7/10/2021 10:21:00 PM	61209
Ethylbenzene	ND	0.047		mg/Kg	1	7/10/2021 10:21:00 PM	61209
Xylenes, Total	ND	0.095		mg/Kg	1	7/10/2021 10:21:00 PM	61209
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	7/10/2021 10:21:00 PM	61209

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107284

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates AS Fee Battery

Lab Order: 2107284**Lab ID:** 2107284-016**Collection Date:** 7/6/2021 4:00:00 PM**Client Sample ID:** TP6-15**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							
Chloride	590	60		mg/Kg	20	7/16/2021 9:26:03 AM	61363

Analyst: VP

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2107284

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: MB-61256	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61256	RunNo: 79769								
Prep Date: 7/13/2021	Analysis Date: 7/13/2021	SeqNo: 2806149 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61256	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61256	RunNo: 79769								
Prep Date: 7/13/2021	Analysis Date: 7/13/2021	SeqNo: 2806150 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-61363	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61363	RunNo: 79843								
Prep Date: 7/16/2021	Analysis Date: 7/16/2021	SeqNo: 2809981 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61363	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61363	RunNo: 79843								
Prep Date: 7/16/2021	Analysis Date: 7/16/2021	SeqNo: 2809982 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

Qualifiers:

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

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#: 2107284

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: MB-61226	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61226	RunNo: 79729								
Prep Date: 7/10/2021	Analysis Date: 7/12/2021	SeqNo: 2804391 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		91.8	70	130			

Sample ID: LCS-61226	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61226	RunNo: 79729								
Prep Date: 7/10/2021	Analysis Date: 7/12/2021	SeqNo: 2804392 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	88.6	68.9	141			
Surr: DNOP	4.9		5.000		97.2	70	130			

Sample ID: LCS-61231	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61231	RunNo: 79755								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806342 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	141			
Surr: DNOP	4.2		5.000		83.9	70	130			

Sample ID: MB-61231	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61231	RunNo: 79755								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806418 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		81.3	70	130			

Sample ID: MB-61352	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61352	RunNo: 79858								
Prep Date: 7/15/2021	Analysis Date: 7/16/2021	SeqNo: 2809430 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	70	130			

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#: 2107284

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: LCS-61352	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61352	RunNo: 79858								
Prep Date: 7/15/2021	Analysis Date: 7/16/2021	SeqNo: 2809432	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.6	68.9	141			
Surr: DNOP	5.5		5.000		109	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2107284

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: lcs-61201	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61201				RunNo: 79700					
Prep Date: 7/8/2021	Analysis Date: 7/9/2021				SeqNo: 2802976	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.2	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Sample ID: mb-61201	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61201				RunNo: 79700					
Prep Date: 7/8/2021	Analysis Date: 7/9/2021				SeqNo: 2802977	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.5	70	130			

Sample ID: lcs-61209	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61209				RunNo: 79701					
Prep Date: 7/9/2021	Analysis Date: 7/10/2021				SeqNo: 2803671	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: 2107284-006ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP1-10	Batch ID: 61209				RunNo: 79701					
Prep Date: 7/9/2021	Analysis Date: 7/10/2021				SeqNo: 2803672	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.98	0	114	61.3	114			
Surr: BFB	1200		999.0		122	70	130			

Sample ID: 2107284-006amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: TP1-10	Batch ID: 61209				RunNo: 79701					
Prep Date: 7/9/2021	Analysis Date: 7/10/2021				SeqNo: 2803673	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.58	0	95.2	61.3	114	23.5	20	R
Surr: BFB	1100		943.4		113	70	130	0	0	

Sample ID: mb-61209	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61209				RunNo: 79701					
Prep Date: 7/9/2021	Analysis Date: 7/10/2021				SeqNo: 2803674	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107284

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: mb-61209	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61209	RunNo: 79701								
Prep Date: 7/9/2021	Analysis Date: 7/10/2021	SeqNo: 2803674	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		99.3	70	130			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107284

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: lcs-61201	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61201			RunNo: 79700						
Prep Date: 7/8/2021	Analysis Date: 7/9/2021			SeqNo: 2803024		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.4	80	120			
Toluene	0.99	0.050	1.000	0	99.2	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	70	130			

Sample ID: mb-61201	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61201			RunNo: 79700						
Prep Date: 7/8/2021	Analysis Date: 7/9/2021			SeqNo: 2803025		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: lcs-61209	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61209			RunNo: 79701						
Prep Date: 7/9/2021	Analysis Date: 7/10/2021			SeqNo: 2803700		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	96.0	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.0	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.9	70	130			

Sample ID: mb-61209	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61209			RunNo: 79701						
Prep Date: 7/9/2021	Analysis Date: 7/10/2021			SeqNo: 2803701		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		89.8	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

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

WO#: 2107284

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: 2107284-007ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP1-15	Batch ID: 61209	RunNo: 79701								
Prep Date: 7/9/2021	Analysis Date: 7/10/2021	SeqNo: 2803703	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9643	0	96.8	80	120			
Toluene	0.94	0.048	0.9643	0	97.0	80	120			
Ethylbenzene	0.96	0.048	0.9643	0	99.4	80	120			
Xylenes, Total	2.9	0.096	2.893	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		0.9643		93.7	70	130			

Sample ID: 2107284-007amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP1-15	Batch ID: 61209	RunNo: 79701								
Prep Date: 7/9/2021	Analysis Date: 7/10/2021	SeqNo: 2803705	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9597	0	100	80	120	3.00	20	
Toluene	0.97	0.048	0.9597	0	102	80	120	4.11	20	
Ethylbenzene	1.0	0.048	0.9597	0	104	80	120	4.17	20	
Xylenes, Total	3.0	0.096	2.879	0	104	80	120	4.19	20	
Surr: 4-Bromofluorobenzene	0.90		0.9597		94.1	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#: 2107284

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

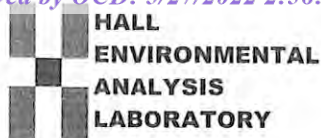
Sample ID: lcs-61329	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 61329			RunNo: 79856						
Prep Date: 7/15/2021	Analysis Date: 7/16/2021			SeqNo: 2809408		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.4	70	130			
Surr: BFB	480		500.0		96.0	70	130			

Sample ID: mb-61329	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 61329			RunNo: 79856						
Prep Date: 7/15/2021	Analysis Date: 7/16/2021			SeqNo: 2809409		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	480		500.0		96.3	70	130			

Qualifiers:

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

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



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: **2107284**RcptNo: **1**Received By: **Cheyenne Cason**

7/8/2021 7:30:00 AM

*CC*Completed By: **Desiree Dominguez**

7/8/2021 10:27:13 AM

*DD*Reviewed By: **JD 7/8/21**

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: **SPA 7.8.21**

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	5.0	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:

Vetes ASke Battery

Project #:

11228401

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 19.9 + 0.1 = 5.0

Container Type and #

Preservative Type

HEAL No.

2107284

-013

-014

-015

-016

-017 2/8/21

-018 2/8/21

-019 2/8/21

-020 2/8/21

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-022 2/8/21

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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

July 19, 2021

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

RE: Yates As Fec Battery

OrderNo.: 2107397

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 24 sample(s) on 7/9/2021 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-001

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

Client Sample ID: TP8-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	180	60		mg/Kg	20	7/14/2021 4:49:12 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/13/2021 12:28:52 PM	61232
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/13/2021 12:28:52 PM	61232
Surr: DNOP	75.0	70-130		%Rec	1	7/13/2021 12:28:52 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/12/2021 1:54:57 PM	61219
Surr: BFB	99.7	70-130		%Rec	1	7/12/2021 1:54:57 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/12/2021 1:54:57 PM	61219
Toluene	ND	0.047		mg/Kg	1	7/12/2021 1:54:57 PM	61219
Ethylbenzene	ND	0.047		mg/Kg	1	7/12/2021 1:54:57 PM	61219
Xylenes, Total	ND	0.095		mg/Kg	1	7/12/2021 1:54:57 PM	61219
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/12/2021 1:54:57 PM	61219

Lab ID: 2107397-003

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

Client Sample ID: TP18-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	7/14/2021 5:14:01 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	43	9.1		mg/Kg	1	7/14/2021 6:07:34 PM	61232
Motor Oil Range Organics (MRO)	320	46		mg/Kg	1	7/14/2021 6:07:34 PM	61232
Surr: DNOP	89.9	70-130		%Rec	1	7/14/2021 6:07:34 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2021 4:17:47 PM	61219
Surr: BFB	96.5	70-130		%Rec	1	7/12/2021 4:17:47 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/12/2021 4:17:47 PM	61219
Toluene	ND	0.048		mg/Kg	1	7/12/2021 4:17:47 PM	61219
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2021 4:17:47 PM	61219
Xylenes, Total	ND	0.096		mg/Kg	1	7/12/2021 4:17:47 PM	61219
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	7/12/2021 4:17:47 PM	61219

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-004

Collection Date: 7/7/2021 8:40:00 AM

Client Sample ID: TP18-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/14/2021 5:26:26 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/13/2021 1:05:36 PM	61232
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2021 1:05:36 PM	61232
Surr: DNOP	70.4	70-130		%Rec	1	7/13/2021 1:05:36 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/12/2021 4:41:35 PM	61219
Surr: BFB	98.2	70-130		%Rec	1	7/12/2021 4:41:35 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/12/2021 4:41:35 PM	61219
Toluene	ND	0.047		mg/Kg	1	7/12/2021 4:41:35 PM	61219
Ethylbenzene	ND	0.047		mg/Kg	1	7/12/2021 4:41:35 PM	61219
Xylenes, Total	ND	0.094		mg/Kg	1	7/12/2021 4:41:35 PM	61219
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/12/2021 4:41:35 PM	61219

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397**Lab ID:** 2107397-005**Collection Date:** 7/7/2021 9:05:00 AM**Client Sample ID:** TP16-16**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4800	150		mg/Kg	50	7/15/2021 4:57:53 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/13/2021 1:17:53 PM	61232
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2021 1:17:53 PM	61232
Surr: DNOP	79.6	70-130		%Rec	1	7/13/2021 1:17:53 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2021 5:05:22 PM	61219
Surr: BFB	101	70-130		%Rec	1	7/12/2021 5:05:22 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/12/2021 5:05:22 PM	61219
Toluene	ND	0.048		mg/Kg	1	7/12/2021 5:05:22 PM	61219
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2021 5:05:22 PM	61219
Xylenes, Total	ND	0.096		mg/Kg	1	7/12/2021 5:05:22 PM	61219
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/12/2021 5:05:22 PM	61219

Lab ID: 2107397-006**Collection Date:** 7/7/2021 9:15:00 AM**Client Sample ID:** TP16-20**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5000	150		mg/Kg	50	7/15/2021 5:10:18 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/13/2021 1:30:10 PM	61232
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/13/2021 1:30:10 PM	61232
Surr: DNOP	79.8	70-130		%Rec	1	7/13/2021 1:30:10 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2021 5:29:09 PM	61219
Surr: BFB	101	70-130		%Rec	1	7/12/2021 5:29:09 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/12/2021 5:29:09 PM	61219
Toluene	ND	0.049		mg/Kg	1	7/12/2021 5:29:09 PM	61219
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2021 5:29:09 PM	61219
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2021 5:29:09 PM	61219
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	7/12/2021 5:29:09 PM	61219

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

Qualifiers:

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

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

Analytical Report

Lab Order: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-007

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

Client Sample ID: TP14-16

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6300	300		mg/Kg	100	7/15/2021 5:22:42 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/13/2021 1:42:28 PM	61232
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/13/2021 1:42:28 PM	61232
Surr: DNOP	81.1	70-130		%Rec	1	7/13/2021 1:42:28 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2021 5:52:55 PM	61219
Surr: BFB	99.8	70-130		%Rec	1	7/12/2021 5:52:55 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/12/2021 5:52:55 PM	61219
Toluene	ND	0.050		mg/Kg	1	7/12/2021 5:52:55 PM	61219
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2021 5:52:55 PM	61219
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2021 5:52:55 PM	61219
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/12/2021 5:52:55 PM	61219

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-008

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

Client Sample ID: TP14-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	7100	300		mg/Kg	100	7/15/2021 5:35:07 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/13/2021 1:54:56 PM	61232
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/13/2021 1:54:56 PM	61232
Surr: DNOP	79.8	70-130		%Rec	1	7/13/2021 1:54:56 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2021 6:16:41 PM	61219
Surr: BFB	99.4	70-130		%Rec	1	7/12/2021 6:16:41 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/12/2021 6:16:41 PM	61219
Toluene	ND	0.048		mg/Kg	1	7/12/2021 6:16:41 PM	61219
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2021 6:16:41 PM	61219
Xylenes, Total	ND	0.096		mg/Kg	1	7/12/2021 6:16:41 PM	61219
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/12/2021 6:16:41 PM	61219

Lab ID: 2107397-009

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

Client Sample ID: TP12-16

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5000	150		mg/Kg	50	7/15/2021 5:47:32 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/13/2021 2:07:20 PM	61232
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/13/2021 2:07:20 PM	61232
Surr: DNOP	81.4	70-130		%Rec	1	7/13/2021 2:07:20 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/12/2021 6:40:26 PM	61219
Surr: BFB	99.9	70-130		%Rec	1	7/12/2021 6:40:26 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/12/2021 6:40:26 PM	61219
Toluene	ND	0.047		mg/Kg	1	7/12/2021 6:40:26 PM	61219
Ethylbenzene	ND	0.047		mg/Kg	1	7/12/2021 6:40:26 PM	61219
Xylenes, Total	ND	0.095		mg/Kg	1	7/12/2021 6:40:26 PM	61219
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/12/2021 6:40:26 PM	61219

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-010

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

Client Sample ID: TP12-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4200	150		mg/Kg	50	7/15/2021 5:59:57 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	7/13/2021 2:19:46 PM	61232
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	7/13/2021 2:19:46 PM	61232
Surr: DNOP	81.6	70-130		%Rec	1	7/13/2021 2:19:46 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2021 7:04:06 PM	61219
Surr: BFB	102	70-130		%Rec	1	7/12/2021 7:04:06 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/12/2021 7:04:06 PM	61219
Toluene	ND	0.049		mg/Kg	1	7/12/2021 7:04:06 PM	61219
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2021 7:04:06 PM	61219
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2021 7:04:06 PM	61219
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	7/12/2021 7:04:06 PM	61219

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-011

Collection Date: 7/7/2021 12:30:00 PM

Client Sample ID: TP19-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/14/2021 7:18:06 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	110	99		mg/Kg	10	7/13/2021 11:31:02 PM	61232
Motor Oil Range Organics (MRO)	570	500		mg/Kg	10	7/13/2021 11:31:02 PM	61232
Surr: DNOP	0	70-130	S	%Rec	10	7/13/2021 11:31:02 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2021 7:51:28 PM	61219
Surr: BFB	96.7	70-130		%Rec	1	7/12/2021 7:51:28 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/12/2021 7:51:28 PM	61219
Toluene	ND	0.049		mg/Kg	1	7/12/2021 7:51:28 PM	61219
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2021 7:51:28 PM	61219
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2021 7:51:28 PM	61219
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/12/2021 7:51:28 PM	61219

Lab ID: 2107397-012

Collection Date: 7/7/2021 12:40:00 PM

Client Sample ID: TP19-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/14/2021 7:30:30 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/13/2021 9:54:02 PM	61232
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/13/2021 9:54:02 PM	61232
Surr: DNOP	71.5	70-130		%Rec	1	7/13/2021 9:54:02 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2021 8:38:46 PM	61219
Surr: BFB	96.6	70-130		%Rec	1	7/12/2021 8:38:46 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/12/2021 8:38:46 PM	61219
Toluene	ND	0.049		mg/Kg	1	7/12/2021 8:38:46 PM	61219
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2021 8:38:46 PM	61219
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2021 8:38:46 PM	61219
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/12/2021 8:38:46 PM	61219

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397**Lab ID:** 2107397-013**Collection Date:** 7/7/2021 12:50:00 PM**Client Sample ID:** TP20-S**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/14/2021 7:42:54 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/14/2021 4:53:42 PM	61233
Motor Oil Range Organics (MRO)	64	46		mg/Kg	1	7/14/2021 4:53:42 PM	61233
Surr: DNOP	110	70-130		%Rec	1	7/14/2021 4:53:42 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2021 7:07:00 PM	61227
Surr: BFB	114	70-130		%Rec	1	7/12/2021 7:07:00 PM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	7/12/2021 7:07:00 PM	61227
Toluene	ND	0.049		mg/Kg	1	7/12/2021 7:07:00 PM	61227
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2021 7:07:00 PM	61227
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2021 7:07:00 PM	61227
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	7/12/2021 7:07:00 PM	61227

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397**Lab ID:** 2107397-014**Collection Date:** 7/7/2021 1:15:00 PM**Client Sample ID:** TP20-2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/14/2021 7:55:18 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/13/2021 5:27:59 PM	61233
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2021 5:27:59 PM	61233
Surr: DNOP	97.8	70-130		%Rec	1	7/13/2021 5:27:59 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2021 8:06:00 PM	61227
Surr: BFB	114	70-130		%Rec	1	7/12/2021 8:06:00 PM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	7/12/2021 8:06:00 PM	61227
Toluene	ND	0.049		mg/Kg	1	7/12/2021 8:06:00 PM	61227
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2021 8:06:00 PM	61227
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2021 8:06:00 PM	61227
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	7/12/2021 8:06:00 PM	61227

Lab ID: 2107397-015**Collection Date:** 7/7/2021 1:25:00 PM**Client Sample ID:** TP21-2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6400	300		mg/Kg	100	7/15/2021 6:12:22 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/13/2021 5:52:03 PM	61233
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2021 5:52:03 PM	61233
Surr: DNOP	111	70-130		%Rec	1	7/13/2021 5:52:03 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2021 9:06:00 PM	61227
Surr: BFB	116	70-130		%Rec	1	7/12/2021 9:06:00 PM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	7/12/2021 9:06:00 PM	61227
Toluene	ND	0.049		mg/Kg	1	7/12/2021 9:06:00 PM	61227
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2021 9:06:00 PM	61227
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2021 9:06:00 PM	61227
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	7/12/2021 9:06:00 PM	61227

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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-016

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

Client Sample ID: TP21-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6700	300		mg/Kg	100	7/15/2021 6:24:47 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.2		mg/Kg	1	7/13/2021 6:16:06 PM	61233
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	7/13/2021 6:16:06 PM	61233
Surr: DNOP	112	70-130		%Rec	1	7/13/2021 6:16:06 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2021 9:26:00 PM	61227
Surr: BFB	112	70-130		%Rec	1	7/12/2021 9:26:00 PM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	7/12/2021 9:26:00 PM	61227
Toluene	ND	0.048		mg/Kg	1	7/12/2021 9:26:00 PM	61227
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2021 9:26:00 PM	61227
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2021 9:26:00 PM	61227
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	7/12/2021 9:26:00 PM	61227

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397**Lab ID:** 2107397-017**Collection Date:** 7/7/2021 1:50:00 PM**Client Sample ID:** TP21-15**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	7300	300		mg/Kg	100	7/15/2021 6:37:12 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/13/2021 6:40:06 PM	61233
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/13/2021 6:40:06 PM	61233
Surr: DNOP	96.5	70-130		%Rec	1	7/13/2021 6:40:06 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2021 9:46:00 PM	61227
Surr: BFB	117	70-130		%Rec	1	7/12/2021 9:46:00 PM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/12/2021 9:46:00 PM	61227
Toluene	ND	0.050		mg/Kg	1	7/12/2021 9:46:00 PM	61227
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2021 9:46:00 PM	61227
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2021 9:46:00 PM	61227
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	7/12/2021 9:46:00 PM	61227

Lab ID: 2107397-018**Collection Date:** 7/7/2021 2:00:00 PM**Client Sample ID:** TP21-20**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6900	300		mg/Kg	100	7/15/2021 6:49:37 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/13/2021 7:04:03 PM	61233
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2021 7:04:03 PM	61233
Surr: DNOP	97.8	70-130		%Rec	1	7/13/2021 7:04:03 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2021 10:06:00 PM	61227
Surr: BFB	115	70-130		%Rec	1	7/12/2021 10:06:00 PM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/12/2021 10:06:00 PM	61227
Toluene	ND	0.050		mg/Kg	1	7/12/2021 10:06:00 PM	61227
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2021 10:06:00 PM	61227
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2021 10:06:00 PM	61227
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	7/12/2021 10:06:00 PM	61227

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-019

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

Client Sample ID: TP11-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	150	59		mg/Kg	20	7/14/2021 11:44:45 AM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	32	9.3		mg/Kg	1	7/14/2021 5:42:40 PM	61233
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	7/14/2021 5:42:40 PM	61233
Surr: DNOP	97.2	70-130		%Rec	1	7/14/2021 5:42:40 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2021 11:26:00 PM	61227
Surr: BFB	114	70-130		%Rec	1	7/12/2021 11:26:00 PM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/12/2021 11:26:00 PM	61227
Toluene	ND	0.050		mg/Kg	1	7/12/2021 11:26:00 PM	61227
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2021 11:26:00 PM	61227
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2021 11:26:00 PM	61227
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	7/12/2021 11:26:00 PM	61227

Lab ID: 2107397-020

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

Client Sample ID: TP11-12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/13/2021 7:52:08 PM	61233
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2021 7:52:08 PM	61233
Surr: DNOP	97.3	70-130		%Rec	1	7/13/2021 7:52:08 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2021 11:46:00 PM	61227
Surr: BFB	113	70-130		%Rec	1	7/12/2021 11:46:00 PM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/12/2021 11:46:00 PM	61227
Toluene	ND	0.050		mg/Kg	1	7/12/2021 11:46:00 PM	61227
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2021 11:46:00 PM	61227
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2021 11:46:00 PM	61227
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	7/12/2021 11:46:00 PM	61227

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-021

Collection Date: 7/7/2021 3:45:00 PM

Client Sample ID: TP10-12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	220	60		mg/Kg	20	7/14/2021 12:09:34 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	7/13/2021 8:16:30 PM	61233
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	7/13/2021 8:16:30 PM	61233
Surr: DNOP	96.1	70-130		%Rec	1	7/13/2021 8:16:30 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2021 12:06:00 AM	61227
Surr: BFB	109	70-130		%Rec	1	7/13/2021 12:06:00 AM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/13/2021 12:06:00 AM	61227
Toluene	ND	0.050		mg/Kg	1	7/13/2021 12:06:00 AM	61227
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2021 12:06:00 AM	61227
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2021 12:06:00 AM	61227
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/13/2021 12:06:00 AM	61227

Lab ID: 2107397-023

Collection Date: 7/7/2021 4:05:00 PM

Client Sample ID: TP22-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/14/2021 12:34:24 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/13/2021 9:05:12 PM	61233
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2021 9:05:12 PM	61233
Surr: DNOP	134	70-130	S	%Rec	1	7/13/2021 9:05:12 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 12:46:00 AM	61227
Surr: BFB	111	70-130		%Rec	1	7/13/2021 12:46:00 AM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	7/13/2021 12:46:00 AM	61227
Toluene	ND	0.049		mg/Kg	1	7/13/2021 12:46:00 AM	61227
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 12:46:00 AM	61227
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2021 12:46:00 AM	61227
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	7/13/2021 12:46:00 AM	61227

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: 2107397

Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fec Battery

Lab Order: 2107397

Lab ID: 2107397-024

Collection Date: 7/7/2021 4:15:00 PM

Client Sample ID: TP22-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	7/14/2021 12:46:48 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/13/2021 9:29:34 PM	61233
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2021 9:29:34 PM	61233
Surr: DNOP	120	70-130		%Rec	1	7/13/2021 9:29:34 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 1:06:00 AM	61227
Surr: BFB	111	70-130		%Rec	1	7/13/2021 1:06:00 AM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/13/2021 1:06:00 AM	61227
Toluene	ND	0.049		mg/Kg	1	7/13/2021 1:06:00 AM	61227
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 1:06:00 AM	61227
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2021 1:06:00 AM	61227
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	7/13/2021 1:06:00 AM	61227

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2107397

19-Jul-21

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: MB-61269	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61269	RunNo: 79769								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2806234	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61269	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61269	RunNo: 79769								
Prep Date: 7/13/2021	Analysis Date: 7/14/2021	SeqNo: 2806235	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Sample ID: MB-61287	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61287	RunNo: 79791								
Prep Date: 7/14/2021	Analysis Date: 7/14/2021	SeqNo: 2808214	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61287	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61287	RunNo: 79791								
Prep Date: 7/14/2021	Analysis Date: 7/14/2021	SeqNo: 2808215	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#: 2107397

19-Jul-21

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: MB-61232	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61232	RunNo: 79755								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2805596 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		89.8	70	130			

Sample ID: LCS-61232	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61232	RunNo: 79755								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2805597 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	68.9	141			
Surr: DNOP	4.6		5.000		91.7	70	130			

Sample ID: MB-61233	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61233	RunNo: 79756								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806322 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		114	70	130			

Sample ID: LCS-61233	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61233	RunNo: 79756								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806323 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	92.9	68.9	141			
Surr: DNOP	5.6		5.000		111	70	130			

Sample ID: 2107397-013AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP20-S	Batch ID: 61233	RunNo: 79790								
Prep Date: 7/12/2021	Analysis Date: 7/14/2021	SeqNo: 2807640 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.4	46.95	5.996	104	15	184			
Surr: DNOP	6.4		4.695		137	70	130			S

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107397

19-Jul-21

Client: GHD Midland

Project: Yates As Fec Battery

Sample ID: 2107397-013AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: TP20-S		Batch ID: 61233		RunNo: 79790						
Prep Date: 7/12/2021		Analysis Date: 7/14/2021		SeqNo: 2807642		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.6	47.85	5.996	61.7	15	184	42.6	23.9	R
Surr: DNOP	4.7		4.785		97.8	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

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#: 2107397

19-Jul-21

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: mb-61219	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 61219			RunNo: 79735						
Prep Date: 7/9/2021	Analysis Date: 7/12/2021			SeqNo: 2804597		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.6	70	130			

Sample ID: lcs-61219	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 61219			RunNo: 79735						
Prep Date: 7/9/2021	Analysis Date: 7/12/2021			SeqNo: 2804598		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.5	78.6	131			
Surr: BFB	1100		1000		108	70	130			

Sample ID: mb-61227	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 61227			RunNo: 79725						
Prep Date: 7/10/2021	Analysis Date: 7/12/2021			SeqNo: 2804718		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		115	70	130			

Sample ID: lcs-61227	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 61227			RunNo: 79725						
Prep Date: 7/10/2021	Analysis Date: 7/12/2021			SeqNo: 2804719		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	88.7	78.6	131			
Surr: BFB	1300		1000		127	70	130			

Sample ID: 2107397-013ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP20-S	Batch ID: 61227			RunNo: 79725						
Prep Date: 7/10/2021	Analysis Date: 7/12/2021			SeqNo: 2804720		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.65	0	84.5	61.3	114			
Surr: BFB	1200		986.2		126	70	130			

Sample ID: 2107397-013amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP20-S	Batch ID: 61227			RunNo: 79725						
Prep Date: 7/10/2021	Analysis Date: 7/12/2021			SeqNo: 2804721		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#: 2107397

19-Jul-21

Client: GHD Midland

Project: Yates As Fec Battery

Sample ID: 2107397-013amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP20-S		Batch ID: 61227		RunNo: 79725						
Prep Date: 7/10/2021		Analysis Date: 7/12/2021		SeqNo: 2804721		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.75	0	86.6	61.3	114	2.87	20	
Surr: BFB	1200		990.1		122	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#: 2107397

19-Jul-21

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: mb-61219	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61219			RunNo: 79735						
Prep Date: 7/9/2021	Analysis Date: 7/12/2021			SeqNo: 2804627		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	70	130			

Sample ID: LCS-61219	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61219			RunNo: 79735						
Prep Date: 7/9/2021	Analysis Date: 7/12/2021			SeqNo: 2804628		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.6	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: mb-61227	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 61227			RunNo: 79725						
Prep Date: 7/10/2021	Analysis Date: 7/12/2021			SeqNo: 2804759		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		114	70	130			

Sample ID: lcs-61227	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 61227			RunNo: 79725						
Prep Date: 7/10/2021	Analysis Date: 7/12/2021			SeqNo: 2804760		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	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#: 2107397

19-Jul-21

Client: GHD Midland
Project: Yates As Fec Battery

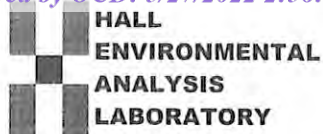
Sample ID: 2107397-014ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP20-2	Batch ID: 61227	RunNo: 79725								
Prep Date: 7/10/2021	Analysis Date: 7/12/2021	SeqNo: 2804761	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9728	0	97.2	80	120			
Toluene	0.98	0.049	0.9728	0	101	80	120			
Ethylbenzene	1.0	0.049	0.9728	0	103	80	120			
Xylenes, Total	3.0	0.097	2.918	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		0.9728		114	70	130			

Sample ID: 2107397-014amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP20-2	Batch ID: 61227	RunNo: 79725								
Prep Date: 7/10/2021	Analysis Date: 7/12/2021	SeqNo: 2804762	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9911	0	95.2	80	120	0.227	20	
Toluene	0.96	0.050	0.9911	0	97.3	80	120	1.36	20	
Ethylbenzene	1.0	0.050	0.9911	0	101	80	120	0.147	20	
Xylenes, Total	3.0	0.099	2.973	0	102	80	120	0.131	20	
Surr: 4-Bromofluorobenzene	1.1		0.9911		114	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: **GHD Midland**Work Order Number: **2107397**RcptNo: **1**Received By: **Cheyenne Cason**

7/9/2021 7:15:00 AM

Completed By: **Sean Livingston**

7/9/2021 9:52:57 AM

Reviewed By:

JR7/9/21

Cason

Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted?

Checked by: MRG 7/9/21

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	5.9	Good				
2	4.8	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:

Vibes AS Fee Battery

Project #:

11228401

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): See Remarks

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

01/20/12 1250 S TP20-S

01/20/12 1315 S TP20-2

01/20/12 1325 S TP21-2

01/20/12 1330 S TP21-8

01/20/12 1350 S TP21-15

01/20/12 1400 S TP21-20

01/20/12 1505 S TP11-8

01/20/12 1520 S TP11-12

01/20/12 1545 S TP10-12

01/20/12 1600 S TP10-14

01/20/12 1605 S TP22-S

01/20/12 1615 S TP22-2

Date:

01/20/12

Relinquished by:

Zach Comino

Received by:

Becky Haskell

Via:

See Comino

Date Time

1/21/12 800

Received by:

See Comino

Via:

See Comino

Date Time

7/18/12 1900

Relinquished by:

Zach Comino

Received by:

See Comino

Via:

See Comino

Date Time

7/18/12 0715

Received by:

See Comino

Via:

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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

July 15, 2021

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

RE: Yates As Fee Battery

OrderNo.: 2107396

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/9/2021 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: 2107396

Date Reported: 7/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fee Battery

Lab Order: 2107396

Lab ID: 2107396-001

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

Client Sample ID: TP23-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	7/14/2021 4:24:23 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/13/2021 10:42:45 PM	61232
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2021 10:42:45 PM	61232
Surr: DNOP	84.3	70-130		%Rec	1	7/13/2021 10:42:45 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2021 1:07:25 PM	61219
Surr: BFB	97.6	70-130		%Rec	1	7/12/2021 1:07:25 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/12/2021 1:07:25 PM	61219
Toluene	ND	0.048		mg/Kg	1	7/12/2021 1:07:25 PM	61219
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2021 1:07:25 PM	61219
Xylenes, Total	ND	0.096		mg/Kg	1	7/12/2021 1:07:25 PM	61219
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/12/2021 1:07:25 PM	61219

Lab ID: 2107396-002

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

Client Sample ID: TP23-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/14/2021 4:36:47 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/13/2021 12:16:45 PM	61232
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2021 12:16:45 PM	61232
Surr: DNOP	74.3	70-130		%Rec	1	7/13/2021 12:16:45 PM	61232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2021 1:31:09 PM	61219
Surr: BFB	97.7	70-130		%Rec	1	7/12/2021 1:31:09 PM	61219
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/12/2021 1:31:09 PM	61219
Toluene	ND	0.050		mg/Kg	1	7/12/2021 1:31:09 PM	61219
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2021 1:31:09 PM	61219
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2021 1:31:09 PM	61219
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/12/2021 1:31:09 PM	61219

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2107396

Date Reported: 7/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Yates As Fee Battery

Lab Order: 2107396

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107396

15-Jul-21

Client: GHD Midland

Project: Yates As Fee Battery

Sample ID: MB-61269		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID: 61269			RunNo: 79769					
Prep Date:	7/13/2021	Analysis Date: 7/14/2021			SeqNo: 2806234		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61269		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID: 61269			RunNo: 79769					
Prep Date:	7/13/2021	Analysis Date: 7/14/2021			SeqNo: 2806235		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

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 3 of 6

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

WO#: 2107396

15-Jul-21

Client: GHD Midland
Project: Yates As Fee Battery

Sample ID: MB-61232	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61232	RunNo: 79755								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2805596 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		89.8	70	130			

Sample ID: LCS-61232	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61232	RunNo: 79755								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2805597 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	68.9	141			
Surr: DNOP	4.6		5.000		91.7	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#: 2107396

15-Jul-21

Client: GHD Midland
Project: Yates As Fee Battery

Sample ID: mb-61219	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61219	RunNo: 79735								
Prep Date: 7/9/2021	Analysis Date: 7/12/2021	SeqNo: 2804597	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.6	70	130			

Sample ID: lcs-61219	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61219	RunNo: 79735								
Prep Date: 7/9/2021	Analysis Date: 7/12/2021	SeqNo: 2804598	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.5	78.6	131			
Surr: BFB	1100		1000		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

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

WO#: 2107396

15-Jul-21

Client: GHD Midland
Project: Yates As Fee Battery

Sample ID: mb-61219	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61219	RunNo: 79735								
Prep Date: 7/9/2021	Analysis Date: 7/12/2021	SeqNo: 2804627	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	70	130			

Sample ID: LCS-61219	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61219	RunNo: 79735								
Prep Date: 7/9/2021	Analysis Date: 7/12/2021	SeqNo: 2804628	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.6	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	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



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: 2107396

RcptNo: 1

Received By: Cheyenne Cason 7/9/2021 7:15:00 AM

Completed By: Sean Livingston 7/9/2021 9:49:10 AM

Reviewed By: SPA 7.9.21

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: 3
(<2 or >12 unless noted)
Adjusted? Yes
Checked by: JR 7/9/21

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	5.9	Good				
2	4.8	Good				



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

March 15, 2022

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

RE: Yates AS FEE Battery

OrderNo.: 2203658

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 7 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203658

Date Reported: 3/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP24-8

Project: Yates AS FEE Battery

Collection Date: 3/10/2022 9:00:00 AM

Lab ID: 2203658-001

Matrix: MEOH (SOIL)

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	420	60		mg/Kg	20	3/11/2022 11:33:17 AM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1300	100		mg/Kg	10	3/11/2022 11:19:43 AM	66112
Motor Oil Range Organics (MRO)	540	500		mg/Kg	10	3/11/2022 11:19:43 AM	66112
Surr: DNOP	0	51.1-141	S	%Rec	10	3/11/2022 11:19:43 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	310	13		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Surr: BFB	432	70-130	S	%Rec	5	3/11/2022 12:14:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	1.2	0.063		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Toluene	ND	0.13		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Ethylbenzene	7.9	0.13		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Xylenes, Total	17	0.25		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Surr: 4-Bromofluorobenzene	213	70-130	S	%Rec	5	3/11/2022 12:14:00 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		

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Analytical Report

Lab Order 2203658

Date Reported: 3/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP24-10

Project: Yates AS FEE Battery

Collection Date: 3/10/2022 9:05:00 AM

Lab ID: 2203658-002

Matrix: MEOH (SOIL)

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	450	61		mg/Kg	20	3/11/2022 11:45:39 AM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	2900	94		mg/Kg	10	3/11/2022 10:25:15 AM	66112
Motor Oil Range Organics (MRO)	1300	470		mg/Kg	10	3/11/2022 10:25:15 AM	66112
Surr: DNOP	0	51.1-141	S	%Rec	10	3/11/2022 10:25:15 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	350	17		mg/Kg	5	3/11/2022 12:34:00 PM	66069
Surr: BFB	516	70-130	S	%Rec	5	3/11/2022 12:34:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	2.5	0.087		mg/Kg	5	3/11/2022 12:34:00 PM	66069
Toluene	0.23	0.17		mg/Kg	5	3/11/2022 12:34:00 PM	66069
Ethylbenzene	9.8	0.17		mg/Kg	5	3/11/2022 12:34:00 PM	66069
Xylenes, Total	21	0.35		mg/Kg	5	3/11/2022 12:34:00 PM	66069
Surr: 4-Bromofluorobenzene	193	70-130	S	%Rec	5	3/11/2022 12:34:00 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 2203658

Date Reported: 3/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP24-12

Project: Yates AS FEE Battery

Collection Date: 3/10/2022 9:10:00 AM

Lab ID: 2203658-003

Matrix: MEOH (SOIL)

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	60		mg/Kg	20	3/11/2022 11:57:59 AM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	3700	94		mg/Kg	10	3/11/2022 10:35:59 AM	66112
Motor Oil Range Organics (MRO)	1400	470		mg/Kg	10	3/11/2022 10:35:59 AM	66112
Surr: DNOP	0	51.1-141	S	%Rec	10	3/11/2022 10:35:59 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	540	19		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Surr: BFB	379	70-130	S	%Rec	5	3/11/2022 12:54:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	3.5	0.096		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Toluene	ND	0.19		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Ethylbenzene	11	0.19		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Xylenes, Total	21	0.38		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Surr: 4-Bromofluorobenzene	206	70-130	S	%Rec	5	3/11/2022 12:54:00 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 2203658

Date Reported: 3/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP24-14

Project: Yates AS FEE Battery

Collection Date: 3/10/2022 9:15:00 AM

Lab ID: 2203658-004

Matrix: MEOH (SOIL)

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1400	60		mg/Kg	20	3/11/2022 12:10:19 PM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	810	90		mg/Kg	10	3/11/2022 10:46:41 AM	66112
Motor Oil Range Organics (MRO)	470	450		mg/Kg	10	3/11/2022 10:46:41 AM	66112
Surr: DNOP	0	51.1-141	S	%Rec	10	3/11/2022 10:46:41 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	67	20		mg/Kg	5	3/11/2022 1:13:00 PM	66069
Surr: BFB	209	70-130	S	%Rec	5	3/11/2022 1:13:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.35	0.10		mg/Kg	5	3/11/2022 1:13:00 PM	66069
Toluene	ND	0.20		mg/Kg	5	3/11/2022 1:13:00 PM	66069
Ethylbenzene	2.6	0.20		mg/Kg	5	3/11/2022 1:13:00 PM	66069
Xylenes, Total	1.3	0.40		mg/Kg	5	3/11/2022 1:13:00 PM	66069
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	5	3/11/2022 1:13:00 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 2203658

Date Reported: 3/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP24-16

Project: Yates AS FEE Battery

Collection Date: 3/10/2022 9:20:00 AM

Lab ID: 2203658-005

Matrix: MEOH (SOIL)

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	3/11/2022 12:47:21 PM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	990	49		mg/Kg	5	3/11/2022 11:20:26 AM	66112
Motor Oil Range Organics (MRO)	340	250		mg/Kg	5	3/11/2022 11:20:26 AM	66112
Surr: DNOP	66.8	51.1-141		%Rec	5	3/11/2022 11:20:26 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	72	19		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Surr: BFB	269	70-130	S	%Rec	5	3/11/2022 1:33:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.097		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Toluene	ND	0.19		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Ethylbenzene	1.6	0.19		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Xylenes, Total	0.81	0.39		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	5	3/11/2022 1:33:00 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 2203658

Date Reported: 3/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP24-18

Project: Yates AS FEE Battery

Collection Date: 3/10/2022 9:25:00 AM

Lab ID: 2203658-006

Matrix: MEOH (SOIL)

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	3/11/2022 12:59:42 PM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	300	9.7		mg/Kg	1	3/11/2022 9:42:09 AM	66112
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	3/11/2022 9:42:09 AM	66112
Surr: DNOP	112	51.1-141		%Rec	1	3/11/2022 9:42:09 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Surr: BFB	133	70-130	S	%Rec	5	3/11/2022 1:53:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.083		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Toluene	ND	0.17		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Ethylbenzene	ND	0.17		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Xylenes, Total	ND	0.33		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	5	3/11/2022 1:53:00 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		

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Analytical Report

Lab Order 2203658

Date Reported: 3/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP24-20

Project: Yates AS FEE Battery

Collection Date: 3/10/2022 9:30:00 AM

Lab ID: 2203658-007

Matrix: MEOH (SOIL)

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	3/11/2022 1:12:03 PM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	530	50		mg/Kg	5	3/11/2022 11:31:06 AM	66112
Motor Oil Range Organics (MRO)	280	250		mg/Kg	5	3/11/2022 11:31:06 AM	66112
Surr: DNOP	88.9	51.1-141		%Rec	5	3/11/2022 11:31:06 AM	66112
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	20	19		mg/Kg	5	3/11/2022 2:52:00 PM	66069
Surr: BFB	151	70-130	S	%Rec	5	3/11/2022 2:52:00 PM	66069
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.094		mg/Kg	5	3/11/2022 2:52:00 PM	66069
Toluene	ND	0.19		mg/Kg	5	3/11/2022 2:52:00 PM	66069
Ethylbenzene	0.39	0.19		mg/Kg	5	3/11/2022 2:52:00 PM	66069
Xylenes, Total	ND	0.38		mg/Kg	5	3/11/2022 2:52:00 PM	66069
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	5	3/11/2022 2:52:00 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#: 2203658

15-Mar-22

Client: GHD Midland**Project:** Yates AS FEE Battery

Sample ID: MB-66119	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66119	RunNo: 86446								
Prep Date: 3/11/2022	Analysis Date: 3/11/2022	SeqNo: 3049910	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66119	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66119	RunNo: 86446								
Prep Date: 3/11/2022	Analysis Date: 3/11/2022	SeqNo: 3049911	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		

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

WO#: 2203658

15-Mar-22

Client: GHD Midland
Project: Yates AS FEE 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			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2203658

15-Mar-22

Client: GHD Midland
Project: Yates AS FEE 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#: 2203658

15-Mar-22

Client: GHD Midland
Project: Yates AS FEE Battery

Sample ID: lcs-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		



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: 2203658

RcptNo: 1

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

Completed By: Sean Livingston 3/11/2022 8:20:07 AM

Reviewed By: *TLU*

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? _____

Checked by: *CLC 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

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 Same day

Project Name:

Vates AS Fee Battery

Project #:

(12340)

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Zach Comino

On Ice:

☒ Yes ☐ No

of Coolers:

1

Cooler Temp (including CP):

24 to 24.5

Container

Type and #

Jar

Preservative

Type

HEAL No.

2203658

Sample Name

Date

Time

Matrix

Sample Name

TP24-8

TP24-10

TP24-12

TP24-14

TP24-16

TP24-18

TP24-20

TP24-22

TP24-24

TP24-26

TP24-28

TP24-30

TP24-32

TP24-34

TP24-36

TP24-38

TP24-40

TP24-42

TP24-44

TP24-46

TP24-48

TP24-50

Relinquished by:

M. Hobel (10-11-11)

Relinquished by:

M. Hobel (10-11-11)

Relinquished by:

M. Hobel (10-11-11)

Relinquished by:

M. Hobel (10-11-11)

Relinquished by:

M. Hobel (10-11-11)

Received by:

Via:

Date

Time

Date

Time

Date

Time

Date

Time

Received by:

Via:

Date

Time

Date

Time

Date

Time

Date

Time

Remarks: Please email: Chase_Settle@eogresources.com;

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

Matthew.Laughlin@ghd.com; Along with Becky Haskell

listed above.

Direct Bill to EOG Chase Settle

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

Hall Environmental

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / 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, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 309



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: Yates AT Fee Battery

OrderNo.: 2203746

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 23 sample(s) on 3/15/2022 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 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-1

Project: Yates AT Fee Battery

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

Lab ID: 2203746-001

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	430	59		mg/Kg	20	3/20/2022 3:44:20 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/17/2022 8:20:39 PM	66203
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/17/2022 8:20:39 PM	66203
Surr: DNOP	94.8	51.1-141		%Rec	1	3/17/2022 8:20:39 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/16/2022 5:57:16 PM	66178
Surr: BFB	106	70-130		%Rec	1	3/16/2022 5:57:16 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/16/2022 5:57:16 PM	66178
Toluene	ND	0.049		mg/Kg	1	3/16/2022 5:57:16 PM	66178
Ethylbenzene	ND	0.049		mg/Kg	1	3/16/2022 5:57:16 PM	66178
Xylenes, Total	ND	0.098		mg/Kg	1	3/16/2022 5:57:16 PM	66178
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	3/16/2022 5:57:16 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-2

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:05:00 AM

Lab ID: 2203746-002

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	84	60		mg/Kg	20	3/20/2022 3:56:44 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/17/2022 8:31:06 PM	66203
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/17/2022 8:31:06 PM	66203
Surr: DNOP	67.6	51.1-141		%Rec	1	3/17/2022 8:31:06 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/16/2022 6:20:41 PM	66178
Surr: BFB	104	70-130		%Rec	1	3/16/2022 6:20:41 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/16/2022 6:20:41 PM	66178
Toluene	ND	0.047		mg/Kg	1	3/16/2022 6:20:41 PM	66178
Ethylbenzene	ND	0.047		mg/Kg	1	3/16/2022 6:20:41 PM	66178
Xylenes, Total	ND	0.093		mg/Kg	1	3/16/2022 6:20:41 PM	66178
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	3/16/2022 6:20:41 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-3

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:10:00 AM

Lab ID: 2203746-003

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	480	60		mg/Kg	20	3/20/2022 4:09:09 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/17/2022 8:41:33 PM	66203
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2022 8:41:33 PM	66203
Surr: DNOP	71.2	51.1-141		%Rec	1	3/17/2022 8:41:33 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/16/2022 6:44:16 PM	66178
Surr: BFB	108	70-130		%Rec	1	3/16/2022 6:44:16 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/16/2022 6:44:16 PM	66178
Toluene	ND	0.047		mg/Kg	1	3/16/2022 6:44:16 PM	66178
Ethylbenzene	ND	0.047		mg/Kg	1	3/16/2022 6:44:16 PM	66178
Xylenes, Total	ND	0.093		mg/Kg	1	3/16/2022 6:44:16 PM	66178
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	3/16/2022 6:44:16 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-4

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:15:00 AM

Lab ID: 2203746-004

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	270	60		mg/Kg	20	3/20/2022 4:21:34 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/17/2022 8:52:01 PM	66203
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/17/2022 8:52:01 PM	66203
Surr: DNOP	79.2	51.1-141		%Rec	1	3/17/2022 8:52:01 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/16/2022 7:07:55 PM	66178
Surr: BFB	106	70-130		%Rec	1	3/16/2022 7:07:55 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/16/2022 7:07:55 PM	66178
Toluene	ND	0.047		mg/Kg	1	3/16/2022 7:07:55 PM	66178
Ethylbenzene	ND	0.047		mg/Kg	1	3/16/2022 7:07:55 PM	66178
Xylenes, Total	ND	0.093		mg/Kg	1	3/16/2022 7:07:55 PM	66178
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	3/16/2022 7:07:55 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-5

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:20:00 AM

Lab ID: 2203746-005

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	110	60		mg/Kg	20	3/20/2022 4:33:59 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2022 2:55:11 PM	66203
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2022 2:55:11 PM	66203
Surr: DNOP	90.8	51.1-141		%Rec	1	3/18/2022 2:55:11 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/16/2022 7:31:25 PM	66178
Surr: BFB	106	70-130		%Rec	1	3/16/2022 7:31:25 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/16/2022 7:31:25 PM	66178
Toluene	ND	0.049		mg/Kg	1	3/16/2022 7:31:25 PM	66178
Ethylbenzene	ND	0.049		mg/Kg	1	3/16/2022 7:31:25 PM	66178
Xylenes, Total	ND	0.099		mg/Kg	1	3/16/2022 7:31:25 PM	66178
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	3/16/2022 7:31:25 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-6

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:25:00 AM

Lab ID: 2203746-006

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	530	60		mg/Kg	20	3/20/2022 5:11:12 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/17/2022 9:12:58 PM	66203
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/17/2022 9:12:58 PM	66203
Surr: DNOP	77.6	51.1-141		%Rec	1	3/17/2022 9:12:58 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/16/2022 8:42:13 PM	66178
Surr: BFB	106	70-130		%Rec	1	3/16/2022 8:42:13 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/16/2022 8:42:13 PM	66178
Toluene	ND	0.048		mg/Kg	1	3/16/2022 8:42:13 PM	66178
Ethylbenzene	ND	0.048		mg/Kg	1	3/16/2022 8:42:13 PM	66178
Xylenes, Total	ND	0.096		mg/Kg	1	3/16/2022 8:42:13 PM	66178
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/16/2022 8:42:13 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-7

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:30:00 AM

Lab ID: 2203746-007

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	440	60		mg/Kg	20	3/20/2022 5:23:36 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/17/2022 9:23:28 PM	66203
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2022 9:23:28 PM	66203
Surr: DNOP	79.4	51.1-141		%Rec	1	3/17/2022 9:23:28 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/16/2022 9:05:48 PM	66178
Surr: BFB	103	70-130		%Rec	1	3/16/2022 9:05:48 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/16/2022 9:05:48 PM	66178
Toluene	ND	0.048		mg/Kg	1	3/16/2022 9:05:48 PM	66178
Ethylbenzene	ND	0.048		mg/Kg	1	3/16/2022 9:05:48 PM	66178
Xylenes, Total	ND	0.097		mg/Kg	1	3/16/2022 9:05:48 PM	66178
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	3/16/2022 9:05:48 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:35:00 AM

Lab ID: 2203746-008

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1400	60		mg/Kg	20	3/20/2022 5:36:01 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	220	8.8		mg/Kg	1	3/17/2022 9:33:59 PM	66203
Motor Oil Range Organics (MRO)	100	44		mg/Kg	1	3/17/2022 9:33:59 PM	66203
Surr: DNOP	60.3	51.1-141		%Rec	1	3/17/2022 9:33:59 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/16/2022 9:29:24 PM	66178
Surr: BFB	103	70-130		%Rec	5	3/16/2022 9:29:24 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/16/2022 9:29:24 PM	66178
Toluene	ND	0.24		mg/Kg	5	3/16/2022 9:29:24 PM	66178
Ethylbenzene	ND	0.24		mg/Kg	5	3/16/2022 9:29:24 PM	66178
Xylenes, Total	ND	0.48		mg/Kg	5	3/16/2022 9:29:24 PM	66178
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	5	3/16/2022 9:29:24 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-9

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:40:00 AM

Lab ID: 2203746-009

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2300	60		mg/Kg	20	3/20/2022 5:48:26 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	21	9.8		mg/Kg	1	3/17/2022 9:44:29 PM	66203
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/17/2022 9:44:29 PM	66203
Surr: DNOP	69.0	51.1-141		%Rec	1	3/17/2022 9:44:29 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/16/2022 9:52:54 PM	66178
Surr: BFB	104	70-130		%Rec	1	3/16/2022 9:52:54 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/16/2022 9:52:54 PM	66178
Toluene	ND	0.046		mg/Kg	1	3/16/2022 9:52:54 PM	66178
Ethylbenzene	ND	0.046		mg/Kg	1	3/16/2022 9:52:54 PM	66178
Xylenes, Total	ND	0.091		mg/Kg	1	3/16/2022 9:52:54 PM	66178
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	3/16/2022 9:52:54 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-10

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:45:00 AM

Lab ID: 2203746-010

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	60		mg/Kg	20	3/20/2022 6:00:51 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/17/2022 9:55:01 PM	66203
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/17/2022 9:55:01 PM	66203
Surr: DNOP	84.4	51.1-141		%Rec	1	3/17/2022 9:55:01 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/16/2022 10:16:27 PM	66178
Surr: BFB	105	70-130		%Rec	1	3/16/2022 10:16:27 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/16/2022 10:16:27 PM	66178
Toluene	ND	0.048		mg/Kg	1	3/16/2022 10:16:27 PM	66178
Ethylbenzene	ND	0.048		mg/Kg	1	3/16/2022 10:16:27 PM	66178
Xylenes, Total	ND	0.095		mg/Kg	1	3/16/2022 10:16:27 PM	66178
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	3/16/2022 10:16:27 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-11

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:50:00 AM

Lab ID: 2203746-011

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	3/20/2022 6:13:16 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/17/2022 10:05:35 PM	66203
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2022 10:05:35 PM	66203
Surr: DNOP	58.0	51.1-141		%Rec	1	3/17/2022 10:05:35 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/16/2022 10:40:02 PM	66178
Surr: BFB	106	70-130		%Rec	1	3/16/2022 10:40:02 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/16/2022 10:40:02 PM	66178
Toluene	ND	0.049		mg/Kg	1	3/16/2022 10:40:02 PM	66178
Ethylbenzene	ND	0.049		mg/Kg	1	3/16/2022 10:40:02 PM	66178
Xylenes, Total	ND	0.098		mg/Kg	1	3/16/2022 10:40:02 PM	66178
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	3/16/2022 10:40:02 PM	66178

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-12

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 8:55:00 AM

Lab ID: 2203746-012

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2200	59		mg/Kg	20	3/21/2022 11:53:12 AM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/17/2022 10:16:15 PM	66203
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/17/2022 10:16:15 PM	66203
Surr: DNOP	53.2	51.1-141		%Rec	1	3/17/2022 10:16:15 PM	66203
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/16/2022 11:03:27 PM	66178
Surr: BFB	106	70-130		%Rec	1	3/16/2022 11:03:27 PM	66178
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/16/2022 11:03:27 PM	66178
Toluene	ND	0.048		mg/Kg	1	3/16/2022 11:03:27 PM	66178
Ethylbenzene	ND	0.048		mg/Kg	1	3/16/2022 11:03:27 PM	66178
Xylenes, Total	ND	0.097		mg/Kg	1	3/16/2022 11:03:27 PM	66178
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	3/16/2022 11:03:27 PM	66178

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-13

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:00:00 AM

Lab ID: 2203746-013

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3200	150		mg/Kg	50	3/23/2022 10:00:39 AM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/18/2022 12:56:57 AM	66212
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2022 12:56:57 AM	66212
Surr: DNOP	75.1	51.1-141		%Rec	1	3/18/2022 12:56:57 AM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/16/2022 6:04:00 PM	66188
Surr: BFB	100	70-130		%Rec	1	3/16/2022 6:04:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/16/2022 6:04:00 PM	66188
Toluene	ND	0.049		mg/Kg	1	3/16/2022 6:04:00 PM	66188
Ethylbenzene	ND	0.049		mg/Kg	1	3/16/2022 6:04:00 PM	66188
Xylenes, Total	ND	0.097		mg/Kg	1	3/16/2022 6:04:00 PM	66188
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	3/16/2022 6:04:00 PM	66188

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-14

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:05:00 AM

Lab ID: 2203746-014

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1800	59		mg/Kg	20	3/21/2022 12:42:50 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/18/2022 1:07:38 AM	66212
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2022 1:07:38 AM	66212
Surr: DNOP	83.1	51.1-141		%Rec	1	3/18/2022 1:07:38 AM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/16/2022 8:02:00 PM	66188
Surr: BFB	108	70-130		%Rec	1	3/16/2022 8:02:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/16/2022 8:02:00 PM	66188
Toluene	ND	0.050		mg/Kg	1	3/16/2022 8:02:00 PM	66188
Ethylbenzene	ND	0.050		mg/Kg	1	3/16/2022 8:02:00 PM	66188
Xylenes, Total	ND	0.099		mg/Kg	1	3/16/2022 8:02:00 PM	66188
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	3/16/2022 8:02:00 PM	66188

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-15

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:10:00 AM

Lab ID: 2203746-015

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	830	60		mg/Kg	20	3/21/2022 12:55:14 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	36	9.2		mg/Kg	1	3/19/2022 12:20:05 AM	66212
Motor Oil Range Organics (MRO)	86	46		mg/Kg	1	3/19/2022 12:20:05 AM	66212
Surr: DNOP	136	51.1-141		%Rec	1	3/19/2022 12:20:05 AM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/16/2022 9:01:00 PM	66188
Surr: BFB	101	70-130		%Rec	1	3/16/2022 9:01:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/16/2022 9:01:00 PM	66188
Toluene	ND	0.046		mg/Kg	1	3/16/2022 9:01:00 PM	66188
Ethylbenzene	ND	0.046		mg/Kg	1	3/16/2022 9:01:00 PM	66188
Xylenes, Total	ND	0.093		mg/Kg	1	3/16/2022 9:01:00 PM	66188
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	3/16/2022 9:01:00 PM	66188

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-16

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:15:00 AM

Lab ID: 2203746-016

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3300	150		mg/Kg	50	3/23/2022 10:13:04 AM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/18/2022 1:29:01 AM	66212
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2022 1:29:01 AM	66212
Surr: DNOP	77.2	51.1-141		%Rec	1	3/18/2022 1:29:01 AM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/16/2022 9:21:00 PM	66188
Surr: BFB	102	70-130		%Rec	1	3/16/2022 9:21:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/16/2022 9:21:00 PM	66188
Toluene	ND	0.050		mg/Kg	1	3/16/2022 9:21:00 PM	66188
Ethylbenzene	ND	0.050		mg/Kg	1	3/16/2022 9:21:00 PM	66188
Xylenes, Total	ND	0.10		mg/Kg	1	3/16/2022 9:21:00 PM	66188
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	3/16/2022 9:21:00 PM	66188

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-17

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:20:00 AM

Lab ID: 2203746-017

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	6200	300		mg/Kg	100	3/23/2022 10:25:29 AM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	46	9.4		mg/Kg	1	3/18/2022 1:39:38 AM	66212
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2022 1:39:38 AM	66212
Surr: DNOP	85.6	51.1-141		%Rec	1	3/18/2022 1:39:38 AM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/16/2022 9:40:00 PM	66188
Surr: BFB	104	70-130		%Rec	1	3/16/2022 9:40:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/16/2022 9:40:00 PM	66188
Toluene	ND	0.050		mg/Kg	1	3/16/2022 9:40:00 PM	66188
Ethylbenzene	ND	0.050		mg/Kg	1	3/16/2022 9:40:00 PM	66188
Xylenes, Total	ND	0.10		mg/Kg	1	3/16/2022 9:40:00 PM	66188
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	3/16/2022 9:40:00 PM	66188

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-18

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:25:00 AM

Lab ID: 2203746-018

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1000	60		mg/Kg	20	3/21/2022 1:57:17 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	41	9.5		mg/Kg	1	3/18/2022 1:50:16 AM	66212
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2022 1:50:16 AM	66212
Surr: DNOP	71.6	51.1-141		%Rec	1	3/18/2022 1:50:16 AM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/16/2022 10:00:00 PM	66188
Surr: BFB	102	70-130		%Rec	1	3/16/2022 10:00:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/16/2022 10:00:00 PM	66188
Toluene	ND	0.049		mg/Kg	1	3/16/2022 10:00:00 PM	66188
Ethylbenzene	ND	0.049		mg/Kg	1	3/16/2022 10:00:00 PM	66188
Xylenes, Total	ND	0.098		mg/Kg	1	3/16/2022 10:00:00 PM	66188
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	3/16/2022 10:00:00 PM	66188

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-19

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:30:00 AM

Lab ID: 2203746-019

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	59		mg/Kg	20	3/21/2022 2:09:41 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	55	9.8		mg/Kg	1	3/18/2022 2:11:23 AM	66212
Motor Oil Range Organics (MRO)	58	49		mg/Kg	1	3/18/2022 2:11:23 AM	66212
Surr: DNOP	79.3	51.1-141		%Rec	1	3/18/2022 2:11:23 AM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/16/2022 10:20:00 PM	66188
Surr: BFB	109	70-130		%Rec	5	3/16/2022 10:20:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	3/16/2022 10:20:00 PM	66188
Toluene	ND	0.25		mg/Kg	5	3/16/2022 10:20:00 PM	66188
Ethylbenzene	ND	0.25		mg/Kg	5	3/16/2022 10:20:00 PM	66188
Xylenes, Total	ND	0.49		mg/Kg	5	3/16/2022 10:20:00 PM	66188
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	5	3/16/2022 10:20:00 PM	66188

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-20

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:35:00 AM

Lab ID: 2203746-020

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1800	60		mg/Kg	20	3/21/2022 2:22:06 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	130	9.5		mg/Kg	1	3/18/2022 2:32:22 AM	66212
Motor Oil Range Organics (MRO)	90	47		mg/Kg	1	3/18/2022 2:32:22 AM	66212
Surr: DNOP	133	51.1-141		%Rec	1	3/18/2022 2:32:22 AM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/16/2022 10:59:00 PM	66188
Surr: BFB	105	70-130		%Rec	5	3/16/2022 10:59:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	3/16/2022 10:59:00 PM	66188
Toluene	ND	0.24		mg/Kg	5	3/16/2022 10:59:00 PM	66188
Ethylbenzene	ND	0.24		mg/Kg	5	3/16/2022 10:59:00 PM	66188
Xylenes, Total	ND	0.48		mg/Kg	5	3/16/2022 10:59:00 PM	66188
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	5	3/16/2022 10:59:00 PM	66188

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-21

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:40:00 AM

Lab ID: 2203746-021

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	600	60		mg/Kg	20	3/21/2022 2:34:30 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	49	9.9		mg/Kg	1	3/18/2022 11:59:05 PM	66212
Motor Oil Range Organics (MRO)	96	50		mg/Kg	1	3/18/2022 11:59:05 PM	66212
Surr: DNOP	72.1	51.1-141		%Rec	1	3/18/2022 11:59:05 PM	66212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/16/2022 11:37:00 PM	66188
Surr: BFB	107	70-130		%Rec	1	3/16/2022 11:37:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/16/2022 11:37:00 PM	66188
Toluene	ND	0.048		mg/Kg	1	3/16/2022 11:37:00 PM	66188
Ethylbenzene	ND	0.048		mg/Kg	1	3/16/2022 11:37:00 PM	66188
Xylenes, Total	ND	0.096		mg/Kg	1	3/16/2022 11:37:00 PM	66188
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	3/16/2022 11:37:00 PM	66188

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-22

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:45:00 AM

Lab ID: 2203746-022

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	760	60		mg/Kg	20	3/21/2022 2:46:55 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	14	9.7		mg/Kg	1	3/17/2022 10:43:09 AM	66213
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/17/2022 10:43:09 AM	66213
Surr: DNOP	71.1	51.1-141		%Rec	1	3/17/2022 10:43:09 AM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/16/2022 11:57:00 PM	66188
Surr: BFB	104	70-130		%Rec	1	3/16/2022 11:57:00 PM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/16/2022 11:57:00 PM	66188
Toluene	ND	0.049		mg/Kg	1	3/16/2022 11:57:00 PM	66188
Ethylbenzene	ND	0.049		mg/Kg	1	3/16/2022 11:57:00 PM	66188
Xylenes, Total	ND	0.097		mg/Kg	1	3/16/2022 11:57:00 PM	66188
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	3/16/2022 11:57:00 PM	66188

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

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

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Analytical Report

Lab Order 2203746

Date Reported: 3/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-23

Project: Yates AT Fee Battery

Collection Date: 3/11/2022 9:50:00 AM

Lab ID: 2203746-023

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1400	60		mg/Kg	20	3/21/2022 2:59:20 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	51	9.8		mg/Kg	1	3/17/2022 10:53:38 AM	66213
Motor Oil Range Organics (MRO)	57	49		mg/Kg	1	3/17/2022 10:53:38 AM	66213
Surr: DNOP	59.0	51.1-141		%Rec	1	3/17/2022 10:53:38 AM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/17/2022 12:17:00 AM	66188
Surr: BFB	106	70-130		%Rec	1	3/17/2022 12:17:00 AM	66188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/17/2022 12:17:00 AM	66188
Toluene	ND	0.046		mg/Kg	1	3/17/2022 12:17:00 AM	66188
Ethylbenzene	ND	0.046		mg/Kg	1	3/17/2022 12:17:00 AM	66188
Xylenes, Total	ND	0.093		mg/Kg	1	3/17/2022 12:17:00 AM	66188
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	3/17/2022 12:17:00 AM	66188

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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#: 2203746

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: MB-66279	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66279	RunNo: 86610								
Prep Date: 3/20/2022	Analysis Date: 3/20/2022	SeqNo: 3057325	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66279	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66279	RunNo: 86610								
Prep Date: 3/20/2022	Analysis Date: 3/20/2022	SeqNo: 3057326	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.0	90	110			

Sample ID: MB-66288	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66288	RunNo: 86641								
Prep Date: 3/21/2022	Analysis Date: 3/21/2022	SeqNo: 3058762	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66288	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66288	RunNo: 86641								
Prep Date: 3/21/2022	Analysis Date: 3/21/2022	SeqNo: 3058763	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

Qualifiers:

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

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

WO#: 2203746

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: 2203746-022AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-22	Batch ID: 66213	RunNo: 86542								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3055243 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.50	14.08	66.1	36.1	154			
Surr: DNOP	2.8		4.950		57.4	51.1	141			

Sample ID: 2203746-022AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-22	Batch ID: 66213	RunNo: 86542								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3055244 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.8	49.07	14.08	75.0	36.1	154	8.31	33.9	
Surr: DNOP	3.6		4.907		73.9	51.1	141	0	0	

Sample ID: LCS-66203	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66203	RunNo: 86542								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3055280 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	92.3	68.9	135			
Surr: DNOP	3.7		5.000		73.9	51.1	141			

Sample ID: LCS-66212	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66212	RunNo: 86542								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3055281 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.5	68.9	135			
Surr: DNOP	3.9		5.000		77.5	51.1	141			

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-66203	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66203	RunNo: 86542								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3055284 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#: 2203746

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: MB-66203	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66203	RunNo: 86542								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3055284 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		84.1	51.1	141			

Sample ID: MB-66212	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66212	RunNo: 86542								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3055285 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.8	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2203746

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: mb-66178	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 66178				RunNo: 86522					
Prep Date: 3/15/2022	Analysis Date: 3/16/2022				SeqNo: 3053232	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		104	70	130			

Sample ID: lcs-66178	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 66178				RunNo: 86522					
Prep Date: 3/15/2022	Analysis Date: 3/16/2022				SeqNo: 3053234	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	2200		1000		221	70	130			S

Sample ID: lcs-66188	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 66188				RunNo: 86499					
Prep Date: 3/15/2022	Analysis Date: 3/16/2022				SeqNo: 3053469	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	2300		1000		227	70	130			S

Sample ID: mb-66188	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 66188				RunNo: 86499					
Prep Date: 3/15/2022	Analysis Date: 3/16/2022				SeqNo: 3053470	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: 2203746-013ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH-13	Batch ID: 66188				RunNo: 86499					
Prep Date: 3/15/2022	Analysis Date: 3/16/2022				SeqNo: 3053472	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.9	24.30	0	131	70	130			S
Surr: BFB	2400		971.8		248	70	130			S

Sample ID: 2203746-013amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH-13	Batch ID: 66188				RunNo: 86499					
Prep Date: 3/15/2022	Analysis Date: 3/16/2022				SeqNo: 3053473	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#: 2203746
25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: 2203746-013amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-13		Batch ID: 66188		RunNo: 86499						
Prep Date: 3/15/2022		Analysis Date: 3/16/2022		SeqNo: 3053473		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	4.9	24.44	0	136	70	130	4.81	20	S
Surr: BFB	2600		977.5		261	70	130	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix 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#: 2203746

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: mb-66178	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66178	RunNo: 86522								
Prep Date: 3/15/2022	Analysis Date: 3/16/2022	SeqNo: 3053274 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	70	130			

Sample ID: LCS-66178	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66178	RunNo: 86522								
Prep Date: 3/15/2022	Analysis Date: 3/16/2022	SeqNo: 3053275 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	0.98	0.050	1.000	0	98.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.5	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: lcs-66188	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66188	RunNo: 86499								
Prep Date: 3/15/2022	Analysis Date: 3/16/2022	SeqNo: 3053507 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.6	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.4	70	130			

Sample ID: mb-66188	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66188	RunNo: 86499								
Prep Date: 3/15/2022	Analysis Date: 3/16/2022	SeqNo: 3053508 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			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	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#: 2203746

25-Mar-22

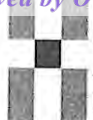
Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: 2203746-014ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-14	Batch ID: 66188	RunNo: 86499								
Prep Date: 3/15/2022	Analysis Date: 3/16/2022	SeqNo: 3053511	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9901	0	111	68.8	120			
Toluene	1.1	0.050	0.9901	0	115	73.6	124			
Ethylbenzene	1.2	0.050	0.9901	0	117	72.7	129			
Xylenes, Total	3.5	0.099	2.970	0	117	75.7	126			
Surr: 4-Bromofluorobenzene	0.91		0.9901		92.0	70	130			

Sample ID: 2203746-014amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-14	Batch ID: 66188	RunNo: 86499								
Prep Date: 3/15/2022	Analysis Date: 3/16/2022	SeqNo: 3053512	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9891	0	119	68.8	120	6.44	20	
Toluene	1.2	0.049	0.9891	0	123	73.6	124	7.08	20	
Ethylbenzene	1.2	0.049	0.9891	0	126	72.7	129	7.28	20	
Xylenes, Total	3.8	0.099	2.967	0	127	75.7	126	7.56	20	S
Surr: 4-Bromofluorobenzene	0.89		0.9891		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		



**ENVIRONMENTAL
ANALYSIS
LABORATORY**

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2203746

RcptNo: 1

Received By: **Tracy Casarrubias** 3/15/2022 7:30:00 AM

Completed By: Tracy Casarrubias 3/15/2022 8:32:51 AM

Reviewed By: KPG 3/15/22

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 ☐	# of preserved bottles checked for pH:
12. Are matrices correctly identified on Chain of Custody?	Yes ☒	No ☐	Adjusted?
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 ☐	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	0.1	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 28, 2022

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

RE: Yates AS Fee Battery

OrderNo.: 2203839

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 25 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-24

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 8:00:00 AM

Lab ID: 2203839-001

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	3/21/2022 10:26:07 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/17/2022 5:32:05 PM	66213
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/17/2022 5:32:05 PM	66213
Surr: DNOP	104	51.1-141		%Rec	1	3/17/2022 5:32:05 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/17/2022 3:31:00 PM	66221
Surr: BFB	103	70-130		%Rec	1	3/17/2022 3:31:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/17/2022 3:31:00 PM	66221
Toluene	ND	0.050		mg/Kg	1	3/17/2022 3:31:00 PM	66221
Ethylbenzene	ND	0.050		mg/Kg	1	3/17/2022 3:31:00 PM	66221
Xylenes, Total	ND	0.099		mg/Kg	1	3/17/2022 3:31:00 PM	66221
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	3/17/2022 3:31:00 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		

Page 1 of 32

Analytical Report

Lab Order 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-25

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 8:05:00 AM

Lab ID: 2203839-002

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/21/2022 11:03:20 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/17/2022 5:42:44 PM	66213
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/17/2022 5:42:44 PM	66213
Surr: DNOP	75.4	51.1-141		%Rec	1	3/17/2022 5:42:44 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2022 3:51:00 PM	66221
Surr: BFB	103	70-130		%Rec	1	3/17/2022 3:51:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/17/2022 3:51:00 PM	66221
Toluene	ND	0.049		mg/Kg	1	3/17/2022 3:51:00 PM	66221
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2022 3:51:00 PM	66221
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2022 3:51:00 PM	66221
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/17/2022 3:51:00 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-26

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 8:10:00 AM

Lab ID: 2203839-003

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	120	59		mg/Kg	20	3/21/2022 11:15:45 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/17/2022 5:53:21 PM	66213
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/17/2022 5:53:21 PM	66213
Surr: DNOP	73.8	51.1-141		%Rec	1	3/17/2022 5:53:21 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2022 4:10:00 PM	66221
Surr: BFB	105	70-130		%Rec	1	3/17/2022 4:10:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/17/2022 4:10:00 PM	66221
Toluene	ND	0.049		mg/Kg	1	3/17/2022 4:10:00 PM	66221
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2022 4:10:00 PM	66221
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2022 4:10:00 PM	66221
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	3/17/2022 4:10:00 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-27

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 8:15:00 AM

Lab ID: 2203839-004

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	180	60		mg/Kg	20	3/21/2022 11:52:59 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/17/2022 6:03:57 PM	66213
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2022 6:03:57 PM	66213
Surr: DNOP	98.0	51.1-141		%Rec	1	3/17/2022 6:03:57 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2022 4:30:00 PM	66221
Surr: BFB	103	70-130		%Rec	1	3/17/2022 4:30:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/17/2022 4:30:00 PM	66221
Toluene	ND	0.049		mg/Kg	1	3/17/2022 4:30:00 PM	66221
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2022 4:30:00 PM	66221
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2022 4:30:00 PM	66221
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	3/17/2022 4:30:00 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-28

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 8:20:00 AM

Lab ID: 2203839-005

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	870	60		mg/Kg	20	3/22/2022 12:05:24 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	130	9.5		mg/Kg	1	3/18/2022 11:38:04 PM	66213
Motor Oil Range Organics (MRO)	190	47		mg/Kg	1	3/18/2022 11:38:04 PM	66213
Surr: DNOP	96.8	51.1-141		%Rec	1	3/18/2022 11:38:04 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2022 4:50:00 PM	66221
Surr: BFB	102	70-130		%Rec	1	3/17/2022 4:50:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/17/2022 4:50:00 PM	66221
Toluene	ND	0.047		mg/Kg	1	3/17/2022 4:50:00 PM	66221
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2022 4:50:00 PM	66221
Xylenes, Total	ND	0.095		mg/Kg	1	3/17/2022 4:50:00 PM	66221
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	3/17/2022 4:50:00 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-29

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 8:25:00 AM

Lab ID: 2203839-006

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	5800	300		mg/Kg	100	3/23/2022 10:50:19 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/17/2022 6:25:06 PM	66213
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2022 6:25:06 PM	66213
Surr: DNOP	99.5	51.1-141		%Rec	1	3/17/2022 6:25:06 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2022 5:09:00 PM	66221
Surr: BFB	106	70-130		%Rec	1	3/17/2022 5:09:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	3/17/2022 5:09:00 PM	66221
Toluene	ND	0.047		mg/Kg	1	3/17/2022 5:09:00 PM	66221
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2022 5:09:00 PM	66221
Xylenes, Total	ND	0.094		mg/Kg	1	3/17/2022 5:09:00 PM	66221
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	3/17/2022 5:09:00 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-30

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 8:30:00 AM

Lab ID: 2203839-007

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3500	150		mg/Kg	50	3/23/2022 11:02:43 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/17/2022 6:35:40 PM	66213
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2022 6:35:40 PM	66213
Surr: DNOP	126	51.1-141		%Rec	1	3/17/2022 6:35:40 PM	66213
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2022 5:29:00 PM	66221
Surr: BFB	111	70-130		%Rec	1	3/17/2022 5:29:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	3/17/2022 5:29:00 PM	66221
Toluene	ND	0.047		mg/Kg	1	3/17/2022 5:29:00 PM	66221
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2022 5:29:00 PM	66221
Xylenes, Total	ND	0.094		mg/Kg	1	3/17/2022 5:29:00 PM	66221
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	3/17/2022 5:29:00 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-31

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 9:00:00 AM

Lab ID: 2203839-008

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1600	60		mg/Kg	20	3/22/2022 12:42:38 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/18/2022 5:56:33 PM	66234
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2022 5:56:33 PM	66234
Surr: DNOP	74.0	51.1-141		%Rec	1	3/18/2022 5:56:33 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2022 5:49:00 PM	66221
Surr: BFB	109	70-130		%Rec	1	3/17/2022 5:49:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/17/2022 5:49:00 PM	66221
Toluene	ND	0.048		mg/Kg	1	3/17/2022 5:49:00 PM	66221
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2022 5:49:00 PM	66221
Xylenes, Total	ND	0.096		mg/Kg	1	3/17/2022 5:49:00 PM	66221
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	3/17/2022 5:49:00 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-32

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 9:05:00 AM

Lab ID: 2203839-009

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	540	60		mg/Kg	20	3/22/2022 12:55:03 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	700	180		mg/Kg	20	3/18/2022 6:07:10 PM	66234
Motor Oil Range Organics (MRO)	1100	880		mg/Kg	20	3/18/2022 6:07:10 PM	66234
Surr: DNOP	0	51.1-141	S	%Rec	20	3/18/2022 6:07:10 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Surr: BFB	105	70-130		%Rec	1	3/17/2022 6:09:00 PM	66221
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Toluene	ND	0.047		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Xylenes, Total	ND	0.093		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	3/17/2022 6:09:00 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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-33

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 9:10:00 AM

Lab ID: 2203839-010

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	3/22/2022 1:07:27 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	250	9.9		mg/Kg	1	3/21/2022 3:15:19 PM	66234
Motor Oil Range Organics (MRO)	520	49		mg/Kg	1	3/21/2022 3:15:19 PM	66234
Surr: DNOP	91.7	51.1-141		%Rec	1	3/21/2022 3:15:19 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2022 7:28:13 PM	66222
Surr: BFB	105	70-130		%Rec	1	3/17/2022 7:28:13 PM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/17/2022 7:28:13 PM	66222
Toluene	ND	0.049		mg/Kg	1	3/17/2022 7:28:13 PM	66222
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2022 7:28:13 PM	66222
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2022 7:28:13 PM	66222
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	3/17/2022 7:28:13 PM	66222

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

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

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Analytical Report

Lab Order 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-34

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 9:15:00 AM

Lab ID: 2203839-011

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2700	150		mg/Kg	50	3/23/2022 11:15:08 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/18/2022 6:28:24 PM	66234
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2022 6:28:24 PM	66234
Surr: DNOP	61.3	51.1-141		%Rec	1	3/18/2022 6:28:24 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2022 8:39:17 PM	66222
Surr: BFB	109	70-130		%Rec	1	3/17/2022 8:39:17 PM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/17/2022 8:39:17 PM	66222
Toluene	ND	0.048		mg/Kg	1	3/17/2022 8:39:17 PM	66222
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2022 8:39:17 PM	66222
Xylenes, Total	ND	0.097		mg/Kg	1	3/17/2022 8:39:17 PM	66222
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	3/17/2022 8:39:17 PM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-35

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 9:20:00 AM

Lab ID: 2203839-012

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	5300	300		mg/Kg	100	3/23/2022 11:27:33 AM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2022 6:39:02 PM	66234
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2022 6:39:02 PM	66234
Surr: DNOP	84.0	51.1-141		%Rec	1	3/18/2022 6:39:02 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2022 9:50:08 PM	66222
Surr: BFB	106	70-130		%Rec	1	3/17/2022 9:50:08 PM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/17/2022 9:50:08 PM	66222
Toluene	ND	0.048		mg/Kg	1	3/17/2022 9:50:08 PM	66222
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2022 9:50:08 PM	66222
Xylenes, Total	ND	0.096		mg/Kg	1	3/17/2022 9:50:08 PM	66222
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	3/17/2022 9:50:08 PM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-1

Project: Yates AS Fee Battery

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

Lab ID: 2203839-013

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	160	60		mg/Kg	20	3/22/2022 3:03:41 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/18/2022 6:49:42 PM	66234
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2022 6:49:42 PM	66234
Surr: DNOP	97.0	51.1-141		%Rec	1	3/18/2022 6:49:42 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2022 10:13:41 PM	66222
Surr: BFB	105	70-130		%Rec	1	3/17/2022 10:13:41 PM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/17/2022 10:13:41 PM	66222
Toluene	ND	0.049		mg/Kg	1	3/17/2022 10:13:41 PM	66222
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2022 10:13:41 PM	66222
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2022 10:13:41 PM	66222
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	3/17/2022 10:13:41 PM	66222

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

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

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Analytical Report

Lab Order 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-2

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 10:05:00 AM

Lab ID: 2203839-014

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	99	60		mg/Kg	20	3/22/2022 3:16:06 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/18/2022 7:00:22 PM	66234
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2022 7:00:22 PM	66234
Surr: DNOP	72.8	51.1-141		%Rec	1	3/18/2022 7:00:22 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2022 10:37:11 PM	66222
Surr: BFB	106	70-130		%Rec	1	3/17/2022 10:37:11 PM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/17/2022 10:37:11 PM	66222
Toluene	ND	0.048		mg/Kg	1	3/17/2022 10:37:11 PM	66222
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2022 10:37:11 PM	66222
Xylenes, Total	ND	0.095		mg/Kg	1	3/17/2022 10:37:11 PM	66222
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	3/17/2022 10:37:11 PM	66222

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

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

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Analytical Report

Lab Order 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-3

Project: Yates AS Fee Battery

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

Lab ID: 2203839-015

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	160	60		mg/Kg	20	3/22/2022 3:28:31 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/21/2022 3:52:22 PM	66234
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/21/2022 3:52:22 PM	66234
Surr: DNOP	97.0	51.1-141		%Rec	1	3/21/2022 3:52:22 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2022 11:00:43 PM	66222
Surr: BFB	108	70-130		%Rec	1	3/17/2022 11:00:43 PM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/17/2022 11:00:43 PM	66222
Toluene	ND	0.047		mg/Kg	1	3/17/2022 11:00:43 PM	66222
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2022 11:00:43 PM	66222
Xylenes, Total	ND	0.095		mg/Kg	1	3/17/2022 11:00:43 PM	66222
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	3/17/2022 11:00:43 PM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-4

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 10:15:00 AM

Lab ID: 2203839-016

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	59		mg/Kg	20	3/22/2022 4:05:45 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/18/2022 7:21:38 PM	66234
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2022 7:21:38 PM	66234
Surr: DNOP	55.9	51.1-141		%Rec	1	3/18/2022 7:21:38 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2022 11:24:14 PM	66222
Surr: BFB	104	70-130		%Rec	1	3/17/2022 11:24:14 PM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/17/2022 11:24:14 PM	66222
Toluene	ND	0.047		mg/Kg	1	3/17/2022 11:24:14 PM	66222
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2022 11:24:14 PM	66222
Xylenes, Total	ND	0.094		mg/Kg	1	3/17/2022 11:24:14 PM	66222
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	3/17/2022 11:24:14 PM	66222

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

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

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Analytical Report

Lab Order 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-5

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 10:20:00 AM

Lab ID: 2203839-017

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/22/2022 4:18:10 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/18/2022 7:32:14 PM	66234
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/18/2022 7:32:14 PM	66234
Surr: DNOP	51.8	51.1-141		%Rec	1	3/18/2022 7:32:14 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2022 11:47:39 PM	66222
Surr: BFB	104	70-130		%Rec	1	3/17/2022 11:47:39 PM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/17/2022 11:47:39 PM	66222
Toluene	ND	0.047		mg/Kg	1	3/17/2022 11:47:39 PM	66222
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2022 11:47:39 PM	66222
Xylenes, Total	ND	0.095		mg/Kg	1	3/17/2022 11:47:39 PM	66222
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	3/17/2022 11:47:39 PM	66222

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

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

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Analytical Report

Lab Order 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-6

Project: Yates AS Fee Battery

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

Lab ID: 2203839-018

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	77	60		mg/Kg	20	3/22/2022 4:30:34 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/21/2022 4:15:58 PM	66234
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/21/2022 4:15:58 PM	66234
Surr: DNOP	80.9	51.1-141		%Rec	1	3/21/2022 4:15:58 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2022 12:11:06 AM	66222
Surr: BFB	104	70-130		%Rec	1	3/18/2022 12:11:06 AM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2022 12:11:06 AM	66222
Toluene	ND	0.048		mg/Kg	1	3/18/2022 12:11:06 AM	66222
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2022 12:11:06 AM	66222
Xylenes, Total	ND	0.095		mg/Kg	1	3/18/2022 12:11:06 AM	66222
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	3/18/2022 12:11:06 AM	66222

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

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

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Analytical Report

Lab Order 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-7

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 11:05:00 AM

Lab ID: 2203839-019

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/22/2022 4:42:59 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/21/2022 4:39:33 PM	66234
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/21/2022 4:39:33 PM	66234
Surr: DNOP	77.2	51.1-141		%Rec	1	3/21/2022 4:39:33 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/18/2022 1:21:19 AM	66222
Surr: BFB	103	70-130		%Rec	1	3/18/2022 1:21:19 AM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2022 1:21:19 AM	66222
Toluene	ND	0.047		mg/Kg	1	3/18/2022 1:21:19 AM	66222
Ethylbenzene	ND	0.047		mg/Kg	1	3/18/2022 1:21:19 AM	66222
Xylenes, Total	ND	0.095		mg/Kg	1	3/18/2022 1:21:19 AM	66222
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	3/18/2022 1:21:19 AM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-8

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 11:10:00 AM

Lab ID: 2203839-020

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	190	60		mg/Kg	20	3/22/2022 4:55:24 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/18/2022 8:04:02 PM	66234
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2022 8:04:02 PM	66234
Surr: DNOP	60.3	51.1-141		%Rec	1	3/18/2022 8:04:02 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2022 1:44:39 AM	66222
Surr: BFB	103	70-130		%Rec	1	3/18/2022 1:44:39 AM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2022 1:44:39 AM	66222
Toluene	ND	0.048		mg/Kg	1	3/18/2022 1:44:39 AM	66222
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2022 1:44:39 AM	66222
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2022 1:44:39 AM	66222
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	3/18/2022 1:44:39 AM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-9

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 11:15:00 AM

Lab ID: 2203839-021

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/22/2022 5:07:49 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/21/2022 5:03:12 PM	66234
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/21/2022 5:03:12 PM	66234
Surr: DNOP	80.1	51.1-141		%Rec	1	3/21/2022 5:03:12 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/18/2022 2:07:57 AM	66222
Surr: BFB	103	70-130		%Rec	1	3/18/2022 2:07:57 AM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/18/2022 2:07:57 AM	66222
Toluene	ND	0.047		mg/Kg	1	3/18/2022 2:07:57 AM	66222
Ethylbenzene	ND	0.047		mg/Kg	1	3/18/2022 2:07:57 AM	66222
Xylenes, Total	ND	0.093		mg/Kg	1	3/18/2022 2:07:57 AM	66222
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	3/18/2022 2:07:57 AM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-36

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 12:00:00 PM

Lab ID: 2203839-022

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	60		mg/Kg	20	3/22/2022 5:20:13 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	310	97		mg/Kg	10	3/21/2022 3:57:40 PM	66234
Motor Oil Range Organics (MRO)	1000	480		mg/Kg	10	3/21/2022 3:57:40 PM	66234
Surr: DNOP	0	51.1-141	S	%Rec	10	3/21/2022 3:57:40 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Surr: BFB	97.9	70-130		%Rec	1	3/18/2022 2:31:30 AM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Toluene	ND	0.049		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Ethylbenzene	ND	0.049		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Xylenes, Total	ND	0.098		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	3/18/2022 2:31:30 AM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-37

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 12:05:00 PM

Lab ID: 2203839-023

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	61		mg/Kg	20	3/22/2022 5:32:38 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	78	9.8		mg/Kg	1	3/21/2022 3:36:29 PM	66234
Motor Oil Range Organics (MRO)	210	49		mg/Kg	1	3/21/2022 3:36:29 PM	66234
Surr: DNOP	87.2	51.1-141		%Rec	1	3/21/2022 3:36:29 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2022 2:54:45 AM	66222
Surr: BFB	102	70-130		%Rec	1	3/18/2022 2:54:45 AM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2022 2:54:45 AM	66222
Toluene	ND	0.048		mg/Kg	1	3/18/2022 2:54:45 AM	66222
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2022 2:54:45 AM	66222
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2022 2:54:45 AM	66222
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	3/18/2022 2:54:45 AM	66222

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

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

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Analytical Report

Lab Order 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-38

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 12:10:00 PM

Lab ID: 2203839-024

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	60		mg/Kg	20	3/22/2022 5:45:02 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/18/2022 8:46:31 PM	66234
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/18/2022 8:46:31 PM	66234
Surr: DNOP	68.0	51.1-141		%Rec	1	3/18/2022 8:46:31 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2022 3:17:59 AM	66222
Surr: BFB	100	70-130		%Rec	1	3/18/2022 3:17:59 AM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2022 3:17:59 AM	66222
Toluene	ND	0.048		mg/Kg	1	3/18/2022 3:17:59 AM	66222
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2022 3:17:59 AM	66222
Xylenes, Total	ND	0.097		mg/Kg	1	3/18/2022 3:17:59 AM	66222
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	3/18/2022 3:17:59 AM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203839

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-39

Project: Yates AS Fee Battery

Collection Date: 3/14/2022 12:15:00 PM

Lab ID: 2203839-025

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	890	60		mg/Kg	20	3/22/2022 5:57:27 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/18/2022 8:57:10 PM	66234
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2022 8:57:10 PM	66234
Surr: DNOP	69.6	51.1-141		%Rec	1	3/18/2022 8:57:10 PM	66234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/18/2022 3:41:17 AM	66222
Surr: BFB	111	70-130		%Rec	1	3/18/2022 3:41:17 AM	66222
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/18/2022 3:41:17 AM	66222
Toluene	ND	0.050		mg/Kg	1	3/18/2022 3:41:17 AM	66222
Ethylbenzene	ND	0.050		mg/Kg	1	3/18/2022 3:41:17 AM	66222
Xylenes, Total	ND	0.10		mg/Kg	1	3/18/2022 3:41:17 AM	66222
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	3/18/2022 3:41:17 AM	66222

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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#: 2203839

28-Mar-22

Client: GHD Midland
Project: Yates AS Fee 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		

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

WO#: 2203839

28-Mar-22

Client: GHD Midland
Project: Yates AS Fee 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			

Sample ID: 2203839-008AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-31	Batch ID: 66234			RunNo: 86572						
Prep Date: 3/17/2022	Analysis Date: 3/18/2022			SeqNo: 3057041		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.5	47.39	0	89.9	36.1	154			
Surr: DNOP	3.2		4.739		67.5	51.1	141			

Sample ID: 2203839-008AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-31	Batch ID: 66234			RunNo: 86572						
Prep Date: 3/17/2022	Analysis Date: 3/18/2022			SeqNo: 3057042		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.7	48.73	0	109	36.1	154	22.3	33.9	
Surr: DNOP	2.7		4.873		55.3	51.1	141	0	0	

Sample ID: LCS-66234	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66234			RunNo: 86572						
Prep Date: 3/17/2022	Analysis Date: 3/18/2022			SeqNo: 3057103		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	92.7	68.9	135			
Surr: DNOP	3.8		5.000		76.6	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#: 2203839

28-Mar-22

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: MB-66234	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66234	RunNo: 86572								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3057107		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	8.7		10.00		86.6	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

Page 28 of 32

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

WO#: 2203839

28-Mar-22

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: mb-66222	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66222	RunNo: 86557								
Prep Date: 3/16/2022	Analysis Date: 3/18/2022	SeqNo: 3054784 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		104	70	130			

Sample ID: lcs-66222	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66222	RunNo: 86557								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3054785 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	78.6	131			
Surr: BFB	2200		1000		223	70	130			S

Sample ID: 2203839-010ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-33	Batch ID: 66222	RunNo: 86557								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3054787 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.32	0	107	70	130			
Surr: BFB	2200		972.8		226	70	130			S

Sample ID: 2203839-010amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-33	Batch ID: 66222	RunNo: 86557								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3054788 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.18	0	101	70	130	6.29	20	
Surr: BFB	2100		967.1		222	70	130	0	0	S

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2203839

28-Mar-22

Client: GHD Midland

Project: Yates AS Fee Battery

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.

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#: 2203839

28-Mar-22

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: mb-66222	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66222	RunNo: 86557								
Prep Date: 3/16/2022	Analysis Date: 3/18/2022	SeqNo: 3054823 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	70	130			

Sample ID: LCS-66222	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66222	RunNo: 86557								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3054824 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	87.2	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.5	70	130			

Sample ID: 2203839-011ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-34	Batch ID: 66222	RunNo: 86557								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3054827 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9709	0	89.2	68.8	120			
Toluene	0.93	0.049	0.9709	0	95.7	73.6	124			
Ethylbenzene	0.95	0.049	0.9709	0	98.2	72.7	129			
Xylenes, Total	2.9	0.097	2.913	0	98.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9709		98.3	70	130			

Sample ID: 2203839-011amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-34	Batch ID: 66222	RunNo: 86557								
Prep Date: 3/16/2022	Analysis Date: 3/17/2022	SeqNo: 3054828 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9690	0	83.0	68.8	120	7.40	20	
Toluene	0.87	0.048	0.9690	0	89.4	73.6	124	7.08	20	
Ethylbenzene	0.89	0.048	0.9690	0	91.6	72.7	129	7.13	20	
Xylenes, Total	2.7	0.097	2.907	0	92.0	75.7	126	7.29	20	
Surr: 4-Bromofluorobenzene	0.98		0.9690		101	70	130	0	0	

Qualifiers:

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

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

WO#: 2203839

28-Mar-22

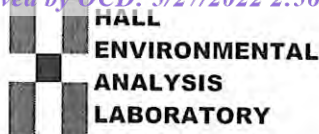
Client: GHD Midland
Project: Yates AS Fee Battery

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			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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: 2203839

RcptNo: 1

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

Completed By: Tracy Casarrubias 3/16/2022 9:52:10 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: KRC 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: _____

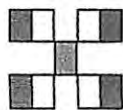
16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record				Turn-Around Time:		
Client: GHD				☒ Standard ☐ Rush <u>5-0g</u>		
Mailing Address:				Project Name:		
324 W. Main St. Suite 108, Artesia NIM 88210				<u>Labs AS Ec B. Hwy</u>		
Phone #: (505)377-4218				Project #:		
email or Fax#: <u>Becky.Haskell@dhd.com</u>				<u>1728401</u>		
QA/QC Package:				Project Manager:		
☐ Standard ☐ Level 4 (Full Validation)				Becky Haskell		
Accreditation: ☐ Az Compliance				Tom Larson		
☐ NELAC ☐ Other				Sampler: Zach Comino		
☐ EDD (Type)				On Ice: ☒ Yes ☐ No		
				# of Coolers: 1		
				Cooler Temp (including CP): <u>51 + 0.2 = 53.2</u>		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
03/15/22	0800	S	BH-24	Jar		2203839
	0805		BH-25			001
	0810		BH-26			002
	0815		BH-27			003
	0820		BH-28			004
	0825		BH-29			005
	0830		BH-30			006
	0800		BH-31			007
	0905		BH-32			008
	0910		BH-33			009
	0915		BH-34			010
	0920		BH-35			011
						012
Date:	Time:	Relinquished by:	Via:	Date	Time	
03/15/22	0800	<u>Zach Comino</u>	<u>airmail</u>	3/15/22	8:00	
Date:	Time:	Relinquished by:	Via:	Date	Time	
3/15/22	1900	<u>airmail</u>		3/16/22	9:00	

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

[illegible]

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

Direct Bill to EOG Chase Settle

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard☒ Rush

Project Name:

Vates AS for Battery

Project #:

11228401

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 31 51+0.2=53

Container Type and #

Preservative Type

HEAL No.

2203839

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**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[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 sheet and will be LOQ Class B/C.

Direct Bill to EOG Chase Settle

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



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: Yates AS Battery

OrderNo.: 2203932

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-40

Project: Yates AS Battery

Collection Date: 3/15/2022 10:00:00 AM

Lab ID: 2203932-002

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	490	60		mg/Kg	20	3/23/2022 12:56:58 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1900	94		mg/Kg	10	3/18/2022 3:04:43 PM	66242
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	3/18/2022 3:04:43 PM	66242
Surr: DNOP	0	51.1-141	S	%Rec	10	3/18/2022 3:04:43 PM	66242
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Surr: BFB	132	70-130	S	%Rec	5	3/18/2022 7:15:00 PM	66237
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Toluene	ND	0.23		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Ethylbenzene	ND	0.23		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Xylenes, Total	ND	0.46		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	5	3/18/2022 7:15:00 PM	66237

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-41

Project: Yates AS Battery

Collection Date: 3/15/2022 10:05:00 AM

Lab ID: 2203932-003

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	3/22/2022 6:47:07 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	3/21/2022 4:08:30 PM	66266
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/21/2022 4:08:30 PM	66266
Surr: DNOP	107	51.1-141		%Rec	1	3/21/2022 4:08:30 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2022 10:58:10 PM	66251
Surr: BFB	108	70-130		%Rec	1	3/18/2022 10:58:10 PM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2022 10:58:10 PM	66251
Toluene	ND	0.048		mg/Kg	1	3/18/2022 10:58:10 PM	66251
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2022 10:58:10 PM	66251
Xylenes, Total	ND	0.095		mg/Kg	1	3/18/2022 10:58:10 PM	66251
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	3/18/2022 10:58:10 PM	66251

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-42

Project: Yates AS Battery

Collection Date: 3/15/2022 10:10:00 AM

Lab ID: 2203932-004

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	60		mg/Kg	20	3/22/2022 7:24:19 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	87	48		mg/Kg	5	3/22/2022 3:09:40 PM	66266
Motor Oil Range Organics (MRO)	350	240		mg/Kg	5	3/22/2022 3:09:40 PM	66266
Surr: DNOP	77.1	51.1-141		%Rec	5	3/22/2022 3:09:40 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2022 12:08:29 AM	66251
Surr: BFB	106	70-130		%Rec	1	3/19/2022 12:08:29 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2022 12:08:29 AM	66251
Toluene	ND	0.048		mg/Kg	1	3/19/2022 12:08:29 AM	66251
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2022 12:08:29 AM	66251
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2022 12:08:29 AM	66251
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	3/19/2022 12:08:29 AM	66251

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-43

Project: Yates AS Battery

Collection Date: 3/15/2022 10:15:00 AM

Lab ID: 2203932-005

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	740	61		mg/Kg	20	3/22/2022 7:36:43 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	390	200		mg/Kg	20	3/21/2022 4:30:04 PM	66266
Motor Oil Range Organics (MRO)	1200	1000		mg/Kg	20	3/21/2022 4:30:04 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 4:30:04 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Surr: BFB	101	70-130		%Rec	1	3/19/2022 1:18:53 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Toluene	ND	0.048		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	3/19/2022 1:18:53 AM	66251

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-44

Project: Yates AS Battery

Collection Date: 3/15/2022 10:18:00 AM

Lab ID: 2203932-006

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	60		mg/Kg	20	3/23/2022 1:59:01 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	310	49		mg/Kg	5	3/22/2022 3:20:25 PM	66266
Motor Oil Range Organics (MRO)	740	240		mg/Kg	5	3/22/2022 3:20:25 PM	66266
Surr: DNOP	121	51.1-141		%Rec	5	3/22/2022 3:20:25 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2022 1:42:20 AM	66251
Surr: BFB	106	70-130		%Rec	1	3/19/2022 1:42:20 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2022 1:42:20 AM	66251
Toluene	ND	0.049		mg/Kg	1	3/19/2022 1:42:20 AM	66251
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2022 1:42:20 AM	66251
Xylenes, Total	ND	0.099		mg/Kg	1	3/19/2022 1:42:20 AM	66251
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	3/19/2022 1:42:20 AM	66251

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-45

Project: Yates AS Battery

Collection Date: 3/15/2022 10:00:00 AM

Lab ID: 2203932-007

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	60		mg/Kg	20	3/23/2022 2:11:25 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	190	10		mg/Kg	1	3/22/2022 2:27:03 PM	66266
Motor Oil Range Organics (MRO)	410	50		mg/Kg	1	3/22/2022 2:27:03 PM	66266
Surr: DNOP	114	51.1-141		%Rec	1	3/22/2022 2:27:03 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2022 2:05:44 AM	66251
Surr: BFB	104	70-130		%Rec	1	3/19/2022 2:05:44 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2022 2:05:44 AM	66251
Toluene	ND	0.049		mg/Kg	1	3/19/2022 2:05:44 AM	66251
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2022 2:05:44 AM	66251
Xylenes, Total	ND	0.098		mg/Kg	1	3/19/2022 2:05:44 AM	66251
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	3/19/2022 2:05:44 AM	66251

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-46

Project: Yates AS Battery

Collection Date: 3/15/2022 10:25:00 AM

Lab ID: 2203932-008

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	520	60		mg/Kg	20	3/23/2022 2:23:50 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	500	9.9		mg/Kg	1	3/22/2022 2:48:21 PM	66266
Motor Oil Range Organics (MRO)	400	49		mg/Kg	1	3/22/2022 2:48:21 PM	66266
Surr: DNOP	102	51.1-141		%Rec	1	3/22/2022 2:48:21 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2022 2:29:08 AM	66251
Surr: BFB	104	70-130		%Rec	1	3/19/2022 2:29:08 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2022 2:29:08 AM	66251
Toluene	ND	0.048		mg/Kg	1	3/19/2022 2:29:08 AM	66251
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2022 2:29:08 AM	66251
Xylenes, Total	ND	0.097		mg/Kg	1	3/19/2022 2:29:08 AM	66251
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	3/19/2022 2:29:08 AM	66251

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-47

Project: Yates AS Battery

Collection Date: 3/15/2022 10:30:00 AM

Lab ID: 2203932-009

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	550	60		mg/Kg	20	3/23/2022 2:36:14 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	6400	190		mg/Kg	20	3/21/2022 5:13:10 PM	66266
Motor Oil Range Organics (MRO)	3400	930		mg/Kg	20	3/21/2022 5:13:10 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 5:13:10 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Surr: BFB	125	70-130		%Rec	1	3/19/2022 2:52:34 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Toluene	ND	0.047		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Ethylbenzene	0.058	0.047		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Xylenes, Total	0.15	0.094		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/19/2022 2:52:34 AM	66251

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-48

Project: Yates AS Battery

Collection Date: 3/15/2022 10:35:00 AM

Lab ID: 2203932-010

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	260	60		mg/Kg	20	3/23/2022 2:48:39 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1200	190		mg/Kg	20	3/21/2022 5:23:54 PM	66266
Motor Oil Range Organics (MRO)	1400	970		mg/Kg	20	3/21/2022 5:23:54 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 5:23:54 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Surr: BFB	126	70-130		%Rec	1	3/19/2022 3:15:56 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Toluene	ND	0.049		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Xylenes, Total	0.11	0.099		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	3/19/2022 3:15:56 AM	66251

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-49

Project: Yates AS Battery

Collection Date: 3/15/2022 10:40:00 AM

Lab ID: 2203932-011

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	970	61		mg/Kg	20	3/23/2022 3:01:03 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	8900	200		mg/Kg	20	3/21/2022 5:34:38 PM	66266
Motor Oil Range Organics (MRO)	3800	990		mg/Kg	20	3/21/2022 5:34:38 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 5:34:38 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	19	5.0		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Surr: BFB	236	70-130	S	%Rec	1	3/19/2022 4:49:16 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Toluene	ND	0.050		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Ethylbenzene	0.28	0.050		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Xylenes, Total	0.58	0.10		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	3/19/2022 4:49:16 AM	66251

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-50

Project: Yates AS Battery

Collection Date: 3/15/2022 10:45:00 AM

Lab ID: 2203932-012

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	140	60		mg/Kg	20	3/23/2022 3:13:27 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	130	48		mg/Kg	5	3/22/2022 3:41:42 PM	66266
Motor Oil Range Organics (MRO)	400	240		mg/Kg	5	3/22/2022 3:41:42 PM	66266
Surr: DNOP	65.1	51.1-141		%Rec	5	3/22/2022 3:41:42 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2022 5:12:36 AM	66251
Surr: BFB	105	70-130		%Rec	1	3/19/2022 5:12:36 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/19/2022 5:12:36 AM	66251
Toluene	ND	0.047		mg/Kg	1	3/19/2022 5:12:36 AM	66251
Ethylbenzene	ND	0.047		mg/Kg	1	3/19/2022 5:12:36 AM	66251
Xylenes, Total	ND	0.094		mg/Kg	1	3/19/2022 5:12:36 AM	66251
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	3/19/2022 5:12:36 AM	66251

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-51

Project: Yates AS Battery

Collection Date: 3/15/2022 10:50:00 AM

Lab ID: 2203932-013

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2600	150		mg/Kg	50	3/24/2022 12:51:11 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	110	49		mg/Kg	5	3/22/2022 4:02:57 PM	66266
Motor Oil Range Organics (MRO)	310	240		mg/Kg	5	3/22/2022 4:02:57 PM	66266
Surr: DNOP	73.8	51.1-141		%Rec	5	3/22/2022 4:02:57 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2022 5:35:52 AM	66251
Surr: BFB	106	70-130		%Rec	1	3/19/2022 5:35:52 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2022 5:35:52 AM	66251
Toluene	ND	0.048		mg/Kg	1	3/19/2022 5:35:52 AM	66251
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2022 5:35:52 AM	66251
Xylenes, Total	ND	0.096		mg/Kg	1	3/19/2022 5:35:52 AM	66251
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	3/19/2022 5:35:52 AM	66251

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-52

Project: Yates AS Battery

Collection Date: 3/15/2022 10:55:00 AM

Lab ID: 2203932-014

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4800	300		mg/Kg	100	3/24/2022 1:03:35 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/21/2022 6:06:43 PM	66266
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/21/2022 6:06:43 PM	66266
Surr: DNOP	91.3	51.1-141		%Rec	1	3/21/2022 6:06:43 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/19/2022 5:59:08 AM	66251
Surr: BFB	105	70-130		%Rec	1	3/19/2022 5:59:08 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2022 5:59:08 AM	66251
Toluene	ND	0.050		mg/Kg	1	3/19/2022 5:59:08 AM	66251
Ethylbenzene	ND	0.050		mg/Kg	1	3/19/2022 5:59:08 AM	66251
Xylenes, Total	ND	0.099		mg/Kg	1	3/19/2022 5:59:08 AM	66251
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	3/19/2022 5:59:08 AM	66251

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-53

Project: Yates AS Battery

Collection Date: 3/15/2022 11:00:00 AM

Lab ID: 2203932-015

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	410	60		mg/Kg	20	3/23/2022 4:15:29 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	880	190		mg/Kg	20	3/21/2022 6:17:22 PM	66266
Motor Oil Range Organics (MRO)	1100	960		mg/Kg	20	3/21/2022 6:17:22 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 6:17:22 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Surr: BFB	140	70-130	S	%Rec	1	3/19/2022 6:22:26 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Toluene	ND	0.048		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Xylenes, Total	ND	0.096		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/19/2022 6:22:26 AM	66251

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

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

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Analytical Report

Lab Order 2203932

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-54

Project: Yates AS Battery

Collection Date: 3/15/2022 11:05:00 AM

Lab ID: 2203932-016

Matrix: SOIL

Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	710	60		mg/Kg	20	3/23/2022 4:27:53 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	5000	200		mg/Kg	20	3/21/2022 6:28:02 PM	66266
Motor Oil Range Organics (MRO)	2500	990		mg/Kg	20	3/21/2022 6:28:02 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 6:28:02 PM	66266
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Surr: BFB	124	70-130		%Rec	1	3/19/2022 6:45:39 AM	66251
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Toluene	ND	0.049		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Xylenes, Total	ND	0.098		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	3/19/2022 6:45:39 AM	66251

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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#: 2203932

04-Apr-22

Client: GHD Midland

Project: Yates AS Battery

Sample ID: MB-66353		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 66353		RunNo: 86719						
Prep Date: 3/23/2022		Analysis Date: 3/23/2022		SeqNo: 3061682			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66353		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 66353		RunNo: 86719						
Prep Date: 3/23/2022		Analysis Date: 3/23/2022		SeqNo: 3061683			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 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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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2203932

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: LCS-66242	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66242			RunNo: 86572						
Prep Date: 3/17/2022	Analysis Date: 3/18/2022			SeqNo: 3057105		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	68.9	135			
Surr: DNOP	3.8		5.000		75.5	51.1	141			

Sample ID: MB-66242	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66242			RunNo: 86572						
Prep Date: 3/17/2022	Analysis Date: 3/18/2022			SeqNo: 3057109		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-66266	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66266			RunNo: 86603						
Prep Date: 3/18/2022	Analysis Date: 3/21/2022			SeqNo: 3057395		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	87.1	68.9	135			
Surr: DNOP	4.1		5.000		81.3	51.1	141			

Sample ID: MB-66266	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66266			RunNo: 86603						
Prep Date: 3/18/2022	Analysis Date: 3/21/2022			SeqNo: 3057397		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	9.1		10.00		90.7	51.1	141			

Sample ID: 2203932-003AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-41	Batch ID: 66266			RunNo: 86603						
Prep Date: 3/18/2022	Analysis Date: 3/21/2022			SeqNo: 3058425		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.9	49.46	11.01	95.2	36.1	154			
Surr: DNOP	3.8		4.946		77.2	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#: 2203932

04-Apr-22

Client: GHD Midland

Project: Yates AS Battery

Sample ID: 2203932-003AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-41		Batch ID: 66266		RunNo: 86603						
Prep Date: 3/18/2022		Analysis Date: 3/21/2022		SeqNo: 3058426		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	260	9.7	48.40	11.01	515	36.1	154	127	33.9	RS
Surr: DNOP	4.0		4.840		82.1	51.1	141	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2203932

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: mb-66251	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66251	RunNo: 86597								
Prep Date: 3/17/2022	Analysis Date: 3/19/2022	SeqNo: 3056691 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-66251	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66251	RunNo: 86597								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056692 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	97.6	78.6	131			
Surr: BFB	2200		1000		216	70	130			S

Sample ID: 2203932-003ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-41	Batch ID: 66251	RunNo: 86597								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056694 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	23.90	0	116	70	130			
Surr: BFB	2300		956.0		246	70	130			S

Sample ID: 2203932-003amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-41	Batch ID: 66251	RunNo: 86597								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056695 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	23.95	0	119	70	130	2.75	20	
Surr: BFB	2300		957.9		239	70	130	0	0	S

Sample ID: lcs-66237	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66237	RunNo: 86599								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056824 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	2300		1000		229	70	130			S

Sample ID: mb-66237	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66237	RunNo: 86599								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056825 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#: 2203932

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: mb-66237	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66237	RunNo: 86599								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056825		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		114	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#: 2203932

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: mb-66251	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66251	RunNo: 86597								
Prep Date: 3/17/2022	Analysis Date: 3/19/2022	SeqNo: 3056736 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		98.2	70	130			

Sample ID: LCS-66251	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66251	RunNo: 86597								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056737 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.2	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Sample ID: 2203932-004ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-42	Batch ID: 66251	RunNo: 86597								
Prep Date: 3/17/2022	Analysis Date: 3/19/2022	SeqNo: 3056740 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9560	0	97.3	68.8	120			
Toluene	1.0	0.048	0.9560	0	106	73.6	124			
Ethylbenzene	1.0	0.048	0.9560	0	109	72.7	129			
Xylenes, Total	3.1	0.096	2.868	0	108	75.7	126			
Surr: 4-Bromofluorobenzene	0.94		0.9560		98.4	70	130			

Sample ID: 2203932-004amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-42	Batch ID: 66251	RunNo: 86597								
Prep Date: 3/17/2022	Analysis Date: 3/19/2022	SeqNo: 3056741 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9579	0	97.0	68.8	120	0.189	20	
Toluene	1.0	0.048	0.9579	0	104	73.6	124	1.06	20	
Ethylbenzene	1.0	0.048	0.9579	0	107	72.7	129	1.75	20	
Xylenes, Total	3.1	0.096	2.874	0	107	75.7	126	0.581	20	
Surr: 4-Bromofluorobenzene	0.95		0.9579		99.0	70	130	0	0	

Qualifiers:

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

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

WO#: 2203932

04-Apr-22

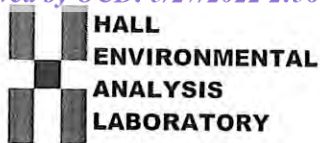
Client: GHD Midland
Project: Yates AS Battery

Sample ID: lcs-66237	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 66237				RunNo: 86599					
Prep Date: 3/17/2022	Analysis Date: 3/18/2022				SeqNo: 3056847	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.0	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	70	130			

Sample ID: mb-66237	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 66237				RunNo: 86599					
Prep Date: 3/17/2022	Analysis Date: 3/18/2022				SeqNo: 3056848	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	0.94		1.000		94.3	70	130			

Qualifiers:

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



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: 2203932

RcptNo: 1

Received By: Cheyenne Cason 3/17/2022 7:00:00 AM

Completed By: Tracy Casarrubias 3/17/2022 8:49:13 AM

Reviewed By: *SCA 3/17/22*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 3/17/22*Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			

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 Days

Project Name:

Yate AS Battery

Project #:

11228401

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including cap): 3.8 + 0.1 = 3.9

Container Type and #

Preservative Type

HEAL No.

2203932

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Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard☒ Rush

Project Name:

Yate AS Battery

Project #:

112284101

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Zach Comino

On Ice:

☒ Yes☐ No

of Coolers:

()

Cooler Temp (including CF): 3.8 + 0.1 = 3.9

Date Time Matrix Sample Name

03/12/22

1050

S

BH-S1

Jar

HEAL No.

2203932

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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: Yates AS Battery

OrderNo.: 2203990

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 13 sample(s) on 3/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-55

Project: Yates AS Battery

Collection Date: 3/16/2022 10:00:00 AM

Lab ID: 2203990-001

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	450	60		mg/Kg	20	3/23/2022 4:48:29 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	30	9.7		mg/Kg	1	3/23/2022 4:09:09 PM	66285
Motor Oil Range Organics (MRO)	55	48		mg/Kg	1	3/23/2022 4:09:09 PM	66285
Surr: DNOP	139	51.1-141		%Rec	1	3/23/2022 4:09:09 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2022 11:33:42 AM	66274
Surr: BFB	108	37.7-212		%Rec	1	3/21/2022 11:33:42 AM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/21/2022 11:33:42 AM	66274
Toluene	ND	0.048		mg/Kg	1	3/21/2022 11:33:42 AM	66274
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2022 11:33:42 AM	66274
Xylenes, Total	ND	0.097		mg/Kg	1	3/21/2022 11:33:42 AM	66274
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	3/21/2022 11:33:42 AM	66274

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 17

Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-56

Project: Yates AS Battery

Collection Date: 3/16/2022 10:05:00 AM

Lab ID: 2203990-002

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4800	300		mg/Kg	100	3/24/2022 1:16:00 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/22/2022 4:34:58 PM	66285
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/22/2022 4:34:58 PM	66285
Surr: DNOP	103	51.1-141		%Rec	1	3/22/2022 4:34:58 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2022 12:44:30 PM	66274
Surr: BFB	109	37.7-212		%Rec	1	3/21/2022 12:44:30 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/21/2022 12:44:30 PM	66274
Toluene	ND	0.048		mg/Kg	1	3/21/2022 12:44:30 PM	66274
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2022 12:44:30 PM	66274
Xylenes, Total	ND	0.096		mg/Kg	1	3/21/2022 12:44:30 PM	66274
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	3/21/2022 12:44:30 PM	66274

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 17

Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-57

Project: Yates AS Battery

Collection Date: 3/16/2022 10:10:00 AM

Lab ID: 2203990-003

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5700	300		mg/Kg	100	3/24/2022 1:28:25 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/22/2022 4:45:41 PM	66285
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/22/2022 4:45:41 PM	66285
Surr: DNOP	89.9	51.1-141		%Rec	1	3/22/2022 4:45:41 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2022 1:54:53 PM	66274
Surr: BFB	109	37.7-212		%Rec	1	3/21/2022 1:54:53 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/21/2022 1:54:53 PM	66274
Toluene	ND	0.047		mg/Kg	1	3/21/2022 1:54:53 PM	66274
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2022 1:54:53 PM	66274
Xylenes, Total	ND	0.095		mg/Kg	1	3/21/2022 1:54:53 PM	66274
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	3/21/2022 1:54:53 PM	66274

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-58

Project: Yates AS Battery

Collection Date: 3/16/2022 12:15:00 PM

Lab ID: 2203990-004

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	260	60		mg/Kg	20	3/23/2022 5:25:43 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	290	49		mg/Kg	5	3/23/2022 6:49:15 PM	66285
Motor Oil Range Organics (MRO)	480	250		mg/Kg	5	3/23/2022 6:49:15 PM	66285
Surr: DNOP	93.2	51.1-141		%Rec	5	3/23/2022 6:49:15 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/21/2022 2:18:16 PM	66274
Surr: BFB	109	37.7-212		%Rec	1	3/21/2022 2:18:16 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/21/2022 2:18:16 PM	66274
Toluene	ND	0.046		mg/Kg	1	3/21/2022 2:18:16 PM	66274
Ethylbenzene	ND	0.046		mg/Kg	1	3/21/2022 2:18:16 PM	66274
Xylenes, Total	ND	0.091		mg/Kg	1	3/21/2022 2:18:16 PM	66274
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	3/21/2022 2:18:16 PM	66274

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 4 of 17

Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-59

Project: Yates AS Battery

Collection Date: 3/16/2022 12:20:00 PM

Lab ID: 2203990-005

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	740	60		mg/Kg	20	3/23/2022 5:38:08 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	59	9.0		mg/Kg	1	3/23/2022 5:34:45 PM	66285
Motor Oil Range Organics (MRO)	78	45		mg/Kg	1	3/23/2022 5:34:45 PM	66285
Surr: DNOP	82.8	51.1-141		%Rec	1	3/23/2022 5:34:45 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/21/2022 2:41:46 PM	66274
Surr: BFB	107	37.7-212		%Rec	1	3/21/2022 2:41:46 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/21/2022 2:41:46 PM	66274
Toluene	ND	0.046		mg/Kg	1	3/21/2022 2:41:46 PM	66274
Ethylbenzene	ND	0.046		mg/Kg	1	3/21/2022 2:41:46 PM	66274
Xylenes, Total	ND	0.092		mg/Kg	1	3/21/2022 2:41:46 PM	66274
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	3/21/2022 2:41:46 PM	66274

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

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

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Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-60

Project: Yates AS Battery

Collection Date: 3/16/2022 12:25:00 PM

Lab ID: 2203990-006

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	410	60		mg/Kg	20	3/23/2022 5:50:33 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/22/2022 5:17:45 PM	66285
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/22/2022 5:17:45 PM	66285
Surr: DNOP	89.1	51.1-141		%Rec	1	3/22/2022 5:17:45 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/21/2022 3:05:14 PM	66274
Surr: BFB	110	37.7-212		%Rec	1	3/21/2022 3:05:14 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/21/2022 3:05:14 PM	66274
Toluene	ND	0.049		mg/Kg	1	3/21/2022 3:05:14 PM	66274
Ethylbenzene	ND	0.049		mg/Kg	1	3/21/2022 3:05:14 PM	66274
Xylenes, Total	ND	0.098		mg/Kg	1	3/21/2022 3:05:14 PM	66274
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	3/21/2022 3:05:14 PM	66274

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

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

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Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-61

Project: Yates AS Battery

Collection Date: 3/16/2022 2:00:00 PM

Lab ID: 2203990-007

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	950	60		mg/Kg	20	3/23/2022 6:27:47 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/22/2022 5:28:25 PM	66285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2022 5:28:25 PM	66285
Surr: DNOP	89.2	51.1-141		%Rec	1	3/22/2022 5:28:25 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/21/2022 4:39:48 PM	66274
Surr: BFB	111	37.7-212		%Rec	1	3/21/2022 4:39:48 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/21/2022 4:39:48 PM	66274
Toluene	ND	0.046		mg/Kg	1	3/21/2022 4:39:48 PM	66274
Ethylbenzene	ND	0.046		mg/Kg	1	3/21/2022 4:39:48 PM	66274
Xylenes, Total	ND	0.093		mg/Kg	1	3/21/2022 4:39:48 PM	66274
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	3/21/2022 4:39:48 PM	66274

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

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

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Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-62

Project: Yates AS Battery

Collection Date: 3/16/2022 2:05:00 PM

Lab ID: 2203990-008

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1000	59		mg/Kg	20	3/23/2022 6:40:13 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/22/2022 5:39:03 PM	66285
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/22/2022 5:39:03 PM	66285
Surr: DNOP	80.8	51.1-141		%Rec	1	3/22/2022 5:39:03 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2022 5:03:29 PM	66274
Surr: BFB	109	37.7-212		%Rec	1	3/21/2022 5:03:29 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/21/2022 5:03:29 PM	66274
Toluene	ND	0.047		mg/Kg	1	3/21/2022 5:03:29 PM	66274
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2022 5:03:29 PM	66274
Xylenes, Total	ND	0.095		mg/Kg	1	3/21/2022 5:03:29 PM	66274
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	3/21/2022 5:03:29 PM	66274

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

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

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Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-63

Project: Yates AS Battery

Collection Date: 3/16/2022 2:10:00 PM

Lab ID: 2203990-009

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	750	60		mg/Kg	20	3/23/2022 6:52:37 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	62	9.4		mg/Kg	1	3/23/2022 4:52:04 PM	66285
Motor Oil Range Organics (MRO)	86	47		mg/Kg	1	3/23/2022 4:52:04 PM	66285
Surr: DNOP	94.6	51.1-141		%Rec	1	3/23/2022 4:52:04 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/21/2022 5:27:01 PM	66274
Surr: BFB	107	37.7-212		%Rec	1	3/21/2022 5:27:01 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/21/2022 5:27:01 PM	66274
Toluene	ND	0.046		mg/Kg	1	3/21/2022 5:27:01 PM	66274
Ethylbenzene	ND	0.046		mg/Kg	1	3/21/2022 5:27:01 PM	66274
Xylenes, Total	ND	0.093		mg/Kg	1	3/21/2022 5:27:01 PM	66274
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	3/21/2022 5:27:01 PM	66274

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

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

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Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-64

Project: Yates AS Battery

Collection Date: 3/16/2022 3:00:00 PM

Lab ID: 2203990-010

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	580	60		mg/Kg	20	3/23/2022 7:05:02 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/22/2022 6:00:17 PM	66285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2022 6:00:17 PM	66285
Surr: DNOP	106	51.1-141		%Rec	1	3/22/2022 6:00:17 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2022 5:50:32 PM	66274
Surr: BFB	109	37.7-212		%Rec	1	3/21/2022 5:50:32 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/21/2022 5:50:32 PM	66274
Toluene	ND	0.047		mg/Kg	1	3/21/2022 5:50:32 PM	66274
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2022 5:50:32 PM	66274
Xylenes, Total	ND	0.094		mg/Kg	1	3/21/2022 5:50:32 PM	66274
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	3/21/2022 5:50:32 PM	66274

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

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

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Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-65

Project: Yates AS Battery

Collection Date: 3/16/2022 3:05:00 PM

Lab ID: 2203990-011

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	470	60		mg/Kg	20	3/23/2022 7:17:26 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/22/2022 6:21:24 PM	66285
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2022 6:21:24 PM	66285
Surr: DNOP	78.8	51.1-141		%Rec	1	3/22/2022 6:21:24 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2022 6:13:57 PM	66274
Surr: BFB	110	37.7-212		%Rec	1	3/21/2022 6:13:57 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/21/2022 6:13:57 PM	66274
Toluene	ND	0.048		mg/Kg	1	3/21/2022 6:13:57 PM	66274
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2022 6:13:57 PM	66274
Xylenes, Total	ND	0.096		mg/Kg	1	3/21/2022 6:13:57 PM	66274
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	3/21/2022 6:13:57 PM	66274

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

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

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Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-66

Project: Yates AS Battery

Collection Date: 3/16/2022 3:10:00 PM

Lab ID: 2203990-012

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	280	60		mg/Kg	20	3/23/2022 7:29:51 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/22/2022 6:32:00 PM	66285
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/22/2022 6:32:00 PM	66285
Surr: DNOP	85.4	51.1-141		%Rec	1	3/22/2022 6:32:00 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/21/2022 6:37:34 PM	66274
Surr: BFB	111	37.7-212		%Rec	1	3/21/2022 6:37:34 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/21/2022 6:37:34 PM	66274
Toluene	ND	0.046		mg/Kg	1	3/21/2022 6:37:34 PM	66274
Ethylbenzene	ND	0.046		mg/Kg	1	3/21/2022 6:37:34 PM	66274
Xylenes, Total	ND	0.091		mg/Kg	1	3/21/2022 6:37:34 PM	66274
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/21/2022 6:37:34 PM	66274

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

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

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Analytical Report

Lab Order 2203990

Date Reported: 4/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-10

Project: Yates AS Battery

Collection Date: 3/16/2022 5:00:00 PM

Lab ID: 2203990-013

Matrix: SOIL

Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	120	61		mg/Kg	20	3/23/2022 7:42:16 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	72	9.6		mg/Kg	1	3/23/2022 5:13:25 PM	66285
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	3/23/2022 5:13:25 PM	66285
Surr: DNOP	85.8	51.1-141		%Rec	1	3/23/2022 5:13:25 PM	66285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/21/2022 7:01:13 PM	66274
Surr: BFB	114	37.7-212		%Rec	1	3/21/2022 7:01:13 PM	66274
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/21/2022 7:01:13 PM	66274
Toluene	ND	0.049		mg/Kg	1	3/21/2022 7:01:13 PM	66274
Ethylbenzene	0.075	0.049		mg/Kg	1	3/21/2022 7:01:13 PM	66274
Xylenes, Total	0.36	0.098		mg/Kg	1	3/21/2022 7:01:13 PM	66274
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	3/21/2022 7:01:13 PM	66274

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not 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#: 2203990

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: MB-66356	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66356	RunNo: 86715								
Prep Date: 3/23/2022	Analysis Date: 3/23/2022	SeqNo: 3061572	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66356	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66356	RunNo: 86715								
Prep Date: 3/23/2022	Analysis Date: 3/23/2022	SeqNo: 3061573	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	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		

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

WO#: 2203990

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

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: 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			

Sample ID: 2203990-001AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-55	Batch ID: 66285			RunNo: 86676						
Prep Date: 3/21/2022	Analysis Date: 3/23/2022			SeqNo: 3061297		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	83	9.8	49.02	30.40	107	36.1	154			
Surr: DNOP	5.4		4.902		109	51.1	141			

Sample ID: 2203990-001AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-55	Batch ID: 66285			RunNo: 86676						
Prep Date: 3/21/2022	Analysis Date: 3/23/2022			SeqNo: 3061298		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	83	9.5	47.35	30.40	112	36.1	154	1.02	33.9	
Surr: DNOP	5.1		4.735		108	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#: 2203990

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: mb-66274	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66274		RunNo: 86621							
Prep Date: 3/18/2022	Analysis Date: 3/21/2022		SeqNo: 3057878		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		111	37.7	212			

Sample ID: lcs-66274	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66274		RunNo: 86621							
Prep Date: 3/18/2022	Analysis Date: 3/21/2022		SeqNo: 3057879		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	111	72.3	137			
Surr: BFB	2400		1000		238	37.7	212			S

Sample ID: 2203990-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-55	Batch ID: 66274		RunNo: 86621							
Prep Date: 3/18/2022	Analysis Date: 3/21/2022		SeqNo: 3057881		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.15	0	107	70	130			
Surr: BFB	2300		966.2		235	37.7	212			S

Sample ID: 2203990-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-55	Batch ID: 66274		RunNo: 86621							
Prep Date: 3/18/2022	Analysis Date: 3/21/2022		SeqNo: 3057882		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.18	0	107	70	130	0.432	20	
Surr: BFB	2200		967.1		231	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#: 2203990

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: mb-66274	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66274	RunNo: 86621								
Prep Date: 3/18/2022	Analysis Date: 3/21/2022	SeqNo: 3057920 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

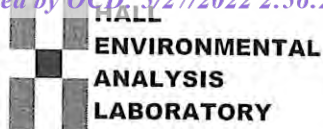
Sample ID: LCS-66274	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66274	RunNo: 86621								
Prep Date: 3/18/2022	Analysis Date: 3/21/2022	SeqNo: 3057921 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Sample ID: 2203990-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-56	Batch ID: 66274	RunNo: 86621								
Prep Date: 3/18/2022	Analysis Date: 3/21/2022	SeqNo: 3057924 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9606	0	81.3	68.8	120			
Toluene	0.86	0.048	0.9606	0.01293	88.1	73.6	124			
Ethylbenzene	0.87	0.048	0.9606	0	90.4	72.7	129			
Xylenes, Total	2.6	0.096	2.882	0	90.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.98		0.9606		102	70	130			

Sample ID: 2203990-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-56	Batch ID: 66274	RunNo: 86621								
Prep Date: 3/18/2022	Analysis Date: 3/21/2022	SeqNo: 3057925 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9569	0	87.1	68.8	120	6.48	20	
Toluene	0.89	0.048	0.9569	0.01293	91.6	73.6	124	3.53	20	
Ethylbenzene	0.91	0.048	0.9569	0	95.6	72.7	129	5.17	20	
Xylenes, Total	2.7	0.096	2.871	0	94.9	75.7	126	4.06	20	
Surr: 4-Bromofluorobenzene	0.96		0.9569		101	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: 2203990

RcptNo: 1

Received By: Cheyenne Cason 3/17/2022 7:25:00 AM

Completed By: Sean Livingston 3/18/2022 8:22:27 AM

Reviewed By: *jr 3/18/22*

Chad
Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *Cue 3/18/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including OF): 18-20 = 1.8

Date Time Matrix Sample Name

HEAL No.

2203490

Container Type and #

Preservative Type

Jar

001

002

003

004

005

006

007

008

009

010

011

012

Date: 03/16/22 0800

Relinquished by: Mitchell Clements

Date: 3/17/22 1900

Relinquished by: Beckv.Haskell

Received by:

Via: Beckv.Haskell

Date: 3/17/22 0800

Date: 3/17/22 0800

Date: 3/17/22 0800

Date: 3/17/22 0800

Date: 3/17/22 0800

Date: 3/17/22 0800

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

April 05, 2022

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

RE: Yates AS Fee Battery

OrderNo.: 2203B39

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 32 sample(s) on 3/22/2022 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 light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-67

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 9:40:00 AM

Lab ID: 2203B39-001

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	170	60		mg/Kg	20	3/28/2022 10:18:50 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/24/2022 12:07:07 PM	66339
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/24/2022 12:07:07 PM	66339
Surr: DNOP	83.2	51.1-141		%Rec	1	3/24/2022 12:07:07 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/23/2022 7:37:00 PM	66332
Surr: BFB	106	37.7-212		%Rec	1	3/23/2022 7:37:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/23/2022 7:37:00 PM	66332
Toluene	ND	0.048		mg/Kg	1	3/23/2022 7:37:00 PM	66332
Ethylbenzene	ND	0.048		mg/Kg	1	3/23/2022 7:37:00 PM	66332
Xylenes, Total	ND	0.097		mg/Kg	1	3/23/2022 7:37:00 PM	66332
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	3/23/2022 7:37:00 PM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-68

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 9:45:00 AM

Lab ID: 2203B39-002

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	250	59		mg/Kg	20	3/28/2022 10:56:04 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/24/2022 12:17:38 PM	66339
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/24/2022 12:17:38 PM	66339
Surr: DNOP	77.9	51.1-141		%Rec	1	3/24/2022 12:17:38 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/23/2022 8:36:00 PM	66332
Surr: BFB	106	37.7-212		%Rec	1	3/23/2022 8:36:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/23/2022 8:36:00 PM	66332
Toluene	ND	0.050		mg/Kg	1	3/23/2022 8:36:00 PM	66332
Ethylbenzene	ND	0.050		mg/Kg	1	3/23/2022 8:36:00 PM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/23/2022 8:36:00 PM	66332
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	3/23/2022 8:36:00 PM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-69

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 9:50:00 AM

Lab ID: 2203B39-003

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	120	60		mg/Kg	20	3/28/2022 11:08:28 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/24/2022 12:28:11 PM	66339
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/24/2022 12:28:11 PM	66339
Surr: DNOP	80.7	51.1-141		%Rec	1	3/24/2022 12:28:11 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/23/2022 8:56:00 PM	66332
Surr: BFB	106	37.7-212		%Rec	1	3/23/2022 8:56:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/23/2022 8:56:00 PM	66332
Toluene	ND	0.049		mg/Kg	1	3/23/2022 8:56:00 PM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/23/2022 8:56:00 PM	66332
Xylenes, Total	ND	0.097		mg/Kg	1	3/23/2022 8:56:00 PM	66332
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	3/23/2022 8:56:00 PM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-70

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 9:55:00 AM

Lab ID: 2203B39-004

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1400	60		mg/Kg	20	3/28/2022 11:20:52 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/24/2022 12:38:46 PM	66339
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/24/2022 12:38:46 PM	66339
Surr: DNOP	78.9	51.1-141		%Rec	1	3/24/2022 12:38:46 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/23/2022 9:15:00 PM	66332
Surr: BFB	111	37.7-212		%Rec	1	3/23/2022 9:15:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/23/2022 9:15:00 PM	66332
Toluene	ND	0.049		mg/Kg	1	3/23/2022 9:15:00 PM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/23/2022 9:15:00 PM	66332
Xylenes, Total	ND	0.098		mg/Kg	1	3/23/2022 9:15:00 PM	66332
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/23/2022 9:15:00 PM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-71

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 10:00:00 AM

Lab ID: 2203B39-005

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1800	60		mg/Kg	20	3/28/2022 11:33:17 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/24/2022 12:49:21 PM	66339
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/24/2022 12:49:21 PM	66339
Surr: DNOP	94.8	51.1-141		%Rec	1	3/24/2022 12:49:21 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/23/2022 9:35:00 PM	66332
Surr: BFB	102	37.7-212		%Rec	1	3/23/2022 9:35:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/23/2022 9:35:00 PM	66332
Toluene	ND	0.050		mg/Kg	1	3/23/2022 9:35:00 PM	66332
Ethylbenzene	ND	0.050		mg/Kg	1	3/23/2022 9:35:00 PM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/23/2022 9:35:00 PM	66332
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	3/23/2022 9:35:00 PM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-72

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 10:05:00 AM

Lab ID: 2203B39-006

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	60		mg/Kg	20	3/28/2022 11:45:42 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	5800	200		mg/Kg	20	3/24/2022 5:58:55 PM	66339
Motor Oil Range Organics (MRO)	3300	980		mg/Kg	20	3/24/2022 5:58:55 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	20	3/24/2022 5:58:55 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	85	25		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Surr: BFB	163	37.7-212		%Rec	5	3/24/2022 2:45:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Toluene	ND	0.25		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Ethylbenzene	0.32	0.25		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Xylenes, Total	2.1	0.50		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	3/24/2022 2:45:00 PM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-73

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 10:35:00 AM

Lab ID: 2203B39-007

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	3/29/2022 12:22:57 AM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2600	190		mg/Kg	20	3/24/2022 5:37:23 PM	66339
Motor Oil Range Organics (MRO)	1400	950		mg/Kg	20	3/24/2022 5:37:23 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	20	3/24/2022 5:37:23 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	180	25		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Surr: BFB	249	37.7-212	S	%Rec	5	3/24/2022 3:05:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Toluene	ND	0.25		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Ethylbenzene	3.0	0.25		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Xylenes, Total	7.2	0.50		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Surr: 4-Bromofluorobenzene	145	70-130	S	%Rec	5	3/24/2022 3:05:00 PM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-74

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 10:40:00 AM

Lab ID: 2203B39-008

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	290	60		mg/Kg	20	3/29/2022 12:35:22 AM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	79	9.6		mg/Kg	1	3/25/2022 4:12:05 PM	66339
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	3/25/2022 4:12:05 PM	66339
Surr: DNOP	104	51.1-141		%Rec	1	3/25/2022 4:12:05 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/23/2022 11:33:00 PM	66332
Surr: BFB	105	37.7-212		%Rec	1	3/23/2022 11:33:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/23/2022 11:33:00 PM	66332
Toluene	ND	0.050		mg/Kg	1	3/23/2022 11:33:00 PM	66332
Ethylbenzene	ND	0.050		mg/Kg	1	3/23/2022 11:33:00 PM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/23/2022 11:33:00 PM	66332
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	3/23/2022 11:33:00 PM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-75

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 10:45:00 AM

Lab ID: 2203B39-009

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	860	60		mg/Kg	20	3/29/2022 12:47:46 AM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	40	9.8		mg/Kg	1	3/24/2022 1:53:26 PM	66339
Motor Oil Range Organics (MRO)	79	49		mg/Kg	1	3/24/2022 1:53:26 PM	66339
Surr: DNOP	81.5	51.1-141		%Rec	1	3/24/2022 1:53:26 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/23/2022 11:53:00 PM	66332
Surr: BFB	107	37.7-212		%Rec	1	3/23/2022 11:53:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/23/2022 11:53:00 PM	66332
Toluene	ND	0.050		mg/Kg	1	3/23/2022 11:53:00 PM	66332
Ethylbenzene	ND	0.050		mg/Kg	1	3/23/2022 11:53:00 PM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/23/2022 11:53:00 PM	66332
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	3/23/2022 11:53:00 PM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-76

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 10:50:00 AM

Lab ID: 2203B39-010

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	320	60		mg/Kg	20	3/29/2022 1:25:00 AM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	810	190		mg/Kg	20	3/24/2022 5:48:07 PM	66339
Motor Oil Range Organics (MRO)	980	970		mg/Kg	20	3/24/2022 5:48:07 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	20	3/24/2022 5:48:07 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Surr: BFB	114	37.7-212		%Rec	1	3/24/2022 12:12:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Toluene	ND	0.049		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/24/2022 12:12:00 AM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-77

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 10:55:00 AM

Lab ID: 2203B39-011

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3100	150		mg/Kg	50	3/29/2022 2:20:04 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	5200	96		mg/Kg	10	3/24/2022 4:43:11 PM	66339
Motor Oil Range Organics (MRO)	2400	480		mg/Kg	10	3/24/2022 4:43:11 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	10	3/24/2022 4:43:11 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	210	24		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Surr: BFB	271	37.7-212	S	%Rec	5	3/24/2022 3:25:00 PM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Toluene	0.51	0.24		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Ethylbenzene	3.3	0.24		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Xylenes, Total	8.6	0.49		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Surr: 4-Bromofluorobenzene	155	70-130	S	%Rec	5	3/24/2022 3:25:00 PM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-78

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:00:00 AM

Lab ID: 2203B39-012

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	60		mg/Kg	20	3/28/2022 2:28:32 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	270	48		mg/Kg	5	3/25/2022 4:55:00 PM	66339
Motor Oil Range Organics (MRO)	530	240		mg/Kg	5	3/25/2022 4:55:00 PM	66339
Surr: DNOP	101	51.1-141		%Rec	5	3/25/2022 4:55:00 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/24/2022 12:52:00 AM	66332
Surr: BFB	103	37.7-212		%Rec	1	3/24/2022 12:52:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/24/2022 12:52:00 AM	66332
Toluene	ND	0.050		mg/Kg	1	3/24/2022 12:52:00 AM	66332
Ethylbenzene	ND	0.050		mg/Kg	1	3/24/2022 12:52:00 AM	66332
Xylenes, Total	ND	0.10		mg/Kg	1	3/24/2022 12:52:00 AM	66332
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	3/24/2022 12:52:00 AM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-79

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:05:00 AM

Lab ID: 2203B39-013

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1000	60		mg/Kg	20	3/28/2022 2:40:53 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	16	9.4		mg/Kg	1	3/24/2022 12:59:58 PM	66339
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/24/2022 12:59:58 PM	66339
Surr: DNOP	85.3	51.1-141		%Rec	1	3/24/2022 12:59:58 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 1:11:00 AM	66332
Surr: BFB	103	37.7-212		%Rec	1	3/24/2022 1:11:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/24/2022 1:11:00 AM	66332
Toluene	ND	0.049		mg/Kg	1	3/24/2022 1:11:00 AM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 1:11:00 AM	66332
Xylenes, Total	ND	0.098		mg/Kg	1	3/24/2022 1:11:00 AM	66332
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	3/24/2022 1:11:00 AM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-80

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:10:00 AM

Lab ID: 2203B39-014

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	120	60		mg/Kg	20	3/28/2022 2:53:14 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/24/2022 1:10:36 PM	66339
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/24/2022 1:10:36 PM	66339
Surr: DNOP	81.9	51.1-141		%Rec	1	3/24/2022 1:10:36 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/24/2022 1:31:00 AM	66332
Surr: BFB	101	37.7-212		%Rec	1	3/24/2022 1:31:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/24/2022 1:31:00 AM	66332
Toluene	ND	0.050		mg/Kg	1	3/24/2022 1:31:00 AM	66332
Ethylbenzene	ND	0.050		mg/Kg	1	3/24/2022 1:31:00 AM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 1:31:00 AM	66332
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	3/24/2022 1:31:00 AM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-81

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:15:00 AM

Lab ID: 2203B39-015

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	280	60		mg/Kg	20	3/28/2022 3:05:34 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	23	9.5		mg/Kg	1	3/24/2022 1:32:00 PM	66339
Motor Oil Range Organics (MRO)	49	48		mg/Kg	1	3/24/2022 1:32:00 PM	66339
Surr: DNOP	87.0	51.1-141		%Rec	1	3/24/2022 1:32:00 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/24/2022 1:51:00 AM	66332
Surr: BFB	104	37.7-212		%Rec	1	3/24/2022 1:51:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/24/2022 1:51:00 AM	66332
Toluene	ND	0.048		mg/Kg	1	3/24/2022 1:51:00 AM	66332
Ethylbenzene	ND	0.048		mg/Kg	1	3/24/2022 1:51:00 AM	66332
Xylenes, Total	ND	0.097		mg/Kg	1	3/24/2022 1:51:00 AM	66332
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	3/24/2022 1:51:00 AM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-82

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:30:00 AM

Lab ID: 2203B39-016

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	300	60		mg/Kg	20	3/28/2022 3:17:55 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	260	49		mg/Kg	5	3/28/2022 2:11:50 PM	66339
Motor Oil Range Organics (MRO)	400	250		mg/Kg	5	3/28/2022 2:11:50 PM	66339
Surr: DNOP	89.3	51.1-141		%Rec	5	3/28/2022 2:11:50 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 2:10:00 AM	66332
Surr: BFB	101	37.7-212		%Rec	1	3/24/2022 2:10:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/24/2022 2:10:00 AM	66332
Toluene	ND	0.049		mg/Kg	1	3/24/2022 2:10:00 AM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 2:10:00 AM	66332
Xylenes, Total	ND	0.097		mg/Kg	1	3/24/2022 2:10:00 AM	66332
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	3/24/2022 2:10:00 AM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-83

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:35:00 AM

Lab ID: 2203B39-017

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	60		mg/Kg	20	3/28/2022 3:30:15 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	530	98		mg/Kg	10	3/24/2022 5:15:45 PM	66339
Motor Oil Range Organics (MRO)	540	490		mg/Kg	10	3/24/2022 5:15:45 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	10	3/24/2022 5:15:45 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Surr: BFB	113	37.7-212		%Rec	1	3/24/2022 2:30:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Toluene	ND	0.049		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	3/24/2022 2:30:00 AM	66332

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-84

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:40:00 AM

Lab ID: 2203B39-018

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1400	60		mg/Kg	20	3/28/2022 4:31:57 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	210	10		mg/Kg	1	3/25/2022 3:50:34 PM	66339
Motor Oil Range Organics (MRO)	280	50		mg/Kg	1	3/25/2022 3:50:34 PM	66339
Surr: DNOP	97.2	51.1-141		%Rec	1	3/25/2022 3:50:34 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/24/2022 3:29:00 AM	66332
Surr: BFB	104	37.7-212		%Rec	1	3/24/2022 3:29:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/24/2022 3:29:00 AM	66332
Toluene	ND	0.050		mg/Kg	1	3/24/2022 3:29:00 AM	66332
Ethylbenzene	ND	0.050		mg/Kg	1	3/24/2022 3:29:00 AM	66332
Xylenes, Total	ND	0.10		mg/Kg	1	3/24/2022 3:29:00 AM	66332
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	3/24/2022 3:29:00 AM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-85

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:45:00 AM

Lab ID: 2203B39-019

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	670	60		mg/Kg	20	3/28/2022 4:44:17 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/24/2022 1:21:17 PM	66339
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/24/2022 1:21:17 PM	66339
Surr: DNOP	76.7	51.1-141		%Rec	1	3/24/2022 1:21:17 PM	66339
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 3:48:00 AM	66332
Surr: BFB	104	37.7-212		%Rec	1	3/24/2022 3:48:00 AM	66332
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/24/2022 3:48:00 AM	66332
Toluene	ND	0.049		mg/Kg	1	3/24/2022 3:48:00 AM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 3:48:00 AM	66332
Xylenes, Total	ND	0.098		mg/Kg	1	3/24/2022 3:48:00 AM	66332
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	3/24/2022 3:48:00 AM	66332

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-86

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:50:00 AM

Lab ID: 2203B39-020

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	750	60		mg/Kg	20	3/28/2022 4:56:37 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	130	9.8		mg/Kg	1	3/24/2022 10:21:00 PM	66359
Motor Oil Range Organics (MRO)	170	49		mg/Kg	1	3/24/2022 10:21:00 PM	66359
Surr: DNOP	93.2	51.1-141		%Rec	1	3/24/2022 10:21:00 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/24/2022 3:51:54 PM	66338
Surr: BFB	108	37.7-212		%Rec	1	3/24/2022 3:51:54 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/24/2022 3:51:54 PM	66338
Toluene	ND	0.048		mg/Kg	1	3/24/2022 3:51:54 PM	66338
Ethylbenzene	ND	0.048		mg/Kg	1	3/24/2022 3:51:54 PM	66338
Xylenes, Total	ND	0.097		mg/Kg	1	3/24/2022 3:51:54 PM	66338
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	3/24/2022 3:51:54 PM	66338

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-87

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 11:55:00 AM

Lab ID: 2203B39-021

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	450	61		mg/Kg	20	3/28/2022 5:08:58 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	84	9.7		mg/Kg	1	3/24/2022 11:33:47 PM	66359
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	3/24/2022 11:33:47 PM	66359
Surr: DNOP	92.0	51.1-141		%Rec	1	3/24/2022 11:33:47 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/24/2022 5:01:52 PM	66338
Surr: BFB	131	37.7-212		%Rec	1	3/24/2022 5:01:52 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/24/2022 5:01:52 PM	66338
Toluene	ND	0.050		mg/Kg	1	3/24/2022 5:01:52 PM	66338
Ethylbenzene	ND	0.050		mg/Kg	1	3/24/2022 5:01:52 PM	66338
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 5:01:52 PM	66338
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/24/2022 5:01:52 PM	66338

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-88

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 12:00:00 PM

Lab ID: 2203B39-022

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/28/2022 5:21:18 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	21	10		mg/Kg	1	3/24/2022 11:58:02 PM	66359
Motor Oil Range Organics (MRO)	78	50		mg/Kg	1	3/24/2022 11:58:02 PM	66359
Surr: DNOP	90.7	51.1-141		%Rec	1	3/24/2022 11:58:02 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/24/2022 6:11:51 PM	66338
Surr: BFB	109	37.7-212		%Rec	1	3/24/2022 6:11:51 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/24/2022 6:11:51 PM	66338
Toluene	ND	0.048		mg/Kg	1	3/24/2022 6:11:51 PM	66338
Ethylbenzene	ND	0.048		mg/Kg	1	3/24/2022 6:11:51 PM	66338
Xylenes, Total	ND	0.097		mg/Kg	1	3/24/2022 6:11:51 PM	66338
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	3/24/2022 6:11:51 PM	66338

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-89

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 12:05:00 PM

Lab ID: 2203B39-023

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2300	60		mg/Kg	20	3/28/2022 5:33:39 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	89	10		mg/Kg	1	3/25/2022 12:22:08 AM	66359
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	3/25/2022 12:22:08 AM	66359
Surr: DNOP	91.5	51.1-141		%Rec	1	3/25/2022 12:22:08 AM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 6:35:13 PM	66338
Surr: BFB	104	37.7-212		%Rec	1	3/24/2022 6:35:13 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/24/2022 6:35:13 PM	66338
Toluene	ND	0.049		mg/Kg	1	3/24/2022 6:35:13 PM	66338
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 6:35:13 PM	66338
Xylenes, Total	ND	0.098		mg/Kg	1	3/24/2022 6:35:13 PM	66338
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	3/24/2022 6:35:13 PM	66338

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-90

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 12:10:00 PM

Lab ID: 2203B39-024

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	60		mg/Kg	20	3/28/2022 5:46:00 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/24/2022 1:38:08 PM	66359
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/24/2022 1:38:08 PM	66359
Surr: DNOP	89.8	51.1-141		%Rec	1	3/24/2022 1:38:08 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/24/2022 6:58:36 PM	66338
Surr: BFB	107	37.7-212		%Rec	1	3/24/2022 6:58:36 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/24/2022 6:58:36 PM	66338
Toluene	ND	0.050		mg/Kg	1	3/24/2022 6:58:36 PM	66338
Ethylbenzene	ND	0.050		mg/Kg	1	3/24/2022 6:58:36 PM	66338
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 6:58:36 PM	66338
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	3/24/2022 6:58:36 PM	66338

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-91

Project: Yates AS Fee Battery

Collection Date: 3/17/2022 12:15:00 PM

Lab ID: 2203B39-025

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3500	150		mg/Kg	50	3/29/2022 2:32:24 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	120	10		mg/Kg	1	3/25/2022 12:27:10 PM	66359
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	3/25/2022 12:27:10 PM	66359
Surr: DNOP	76.3	51.1-141		%Rec	1	3/25/2022 12:27:10 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/24/2022 7:22:02 PM	66338
Surr: BFB	105	37.7-212		%Rec	1	3/24/2022 7:22:02 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/24/2022 7:22:02 PM	66338
Toluene	ND	0.048		mg/Kg	1	3/24/2022 7:22:02 PM	66338
Ethylbenzene	ND	0.048		mg/Kg	1	3/24/2022 7:22:02 PM	66338
Xylenes, Total	ND	0.097		mg/Kg	1	3/24/2022 7:22:02 PM	66338
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	3/24/2022 7:22:02 PM	66338

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-11

Project: Yates AS Fee Battery

Collection Date: 3/18/2022 12:00:00 PM

Lab ID: 2203B39-026

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	270	60		mg/Kg	20	3/28/2022 6:35:22 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	71	9.9		mg/Kg	1	3/24/2022 2:36:26 PM	66359
Motor Oil Range Organics (MRO)	200	50		mg/Kg	1	3/24/2022 2:36:26 PM	66359
Surr: DNOP	89.3	51.1-141		%Rec	1	3/24/2022 2:36:26 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 7:45:36 PM	66338
Surr: BFB	104	37.7-212		%Rec	1	3/24/2022 7:45:36 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/24/2022 7:45:36 PM	66338
Toluene	ND	0.049		mg/Kg	1	3/24/2022 7:45:36 PM	66338
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 7:45:36 PM	66338
Xylenes, Total	ND	0.098		mg/Kg	1	3/24/2022 7:45:36 PM	66338
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	3/24/2022 7:45:36 PM	66338

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-12

Project: Yates AS Fee Battery

Collection Date: 3/18/2022 12:05:00 PM

Lab ID: 2203B39-027

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	200	60		mg/Kg	20	3/28/2022 6:47:42 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/24/2022 3:25:42 PM	66359
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/24/2022 3:25:42 PM	66359
Surr: DNOP	83.5	51.1-141		%Rec	1	3/24/2022 3:25:42 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/24/2022 8:09:10 PM	66338
Surr: BFB	108	37.7-212		%Rec	1	3/24/2022 8:09:10 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/24/2022 8:09:10 PM	66338
Toluene	ND	0.050		mg/Kg	1	3/24/2022 8:09:10 PM	66338
Ethylbenzene	ND	0.050		mg/Kg	1	3/24/2022 8:09:10 PM	66338
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 8:09:10 PM	66338
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	3/24/2022 8:09:10 PM	66338

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-13

Project: Yates AS Fee Battery

Collection Date: 3/18/2022 12:10:00 PM

Lab ID: 2203B39-028

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	660	60		mg/Kg	20	3/28/2022 7:00:03 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	16	9.6		mg/Kg	1	3/24/2022 4:39:15 PM	66359
Motor Oil Range Organics (MRO)	50	48		mg/Kg	1	3/24/2022 4:39:15 PM	66359
Surr: DNOP	79.3	51.1-141		%Rec	1	3/24/2022 4:39:15 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 9:43:23 PM	66338
Surr: BFB	106	37.7-212		%Rec	1	3/24/2022 9:43:23 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/24/2022 9:43:23 PM	66338
Toluene	ND	0.049		mg/Kg	1	3/24/2022 9:43:23 PM	66338
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 9:43:23 PM	66338
Xylenes, Total	ND	0.097		mg/Kg	1	3/24/2022 9:43:23 PM	66338
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	3/24/2022 9:43:23 PM	66338

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-14

Project: Yates AS Fee Battery

Collection Date: 3/18/2022 12:15:00 PM

Lab ID: 2203B39-029

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	170	60		mg/Kg	20	3/28/2022 7:12:24 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	630	92		mg/Kg	10	3/28/2022 1:03:13 PM	66359
Motor Oil Range Organics (MRO)	950	460		mg/Kg	10	3/28/2022 1:03:13 PM	66359
Surr: DNOP	0	51.1-141	S	%Rec	10	3/28/2022 1:03:13 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/24/2022 10:06:55 PM	66338
Surr: BFB	106	37.7-212		%Rec	5	3/24/2022 10:06:55 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/24/2022 10:06:55 PM	66338
Toluene	ND	0.25		mg/Kg	5	3/24/2022 10:06:55 PM	66338
Ethylbenzene	ND	0.25		mg/Kg	5	3/24/2022 10:06:55 PM	66338
Xylenes, Total	ND	0.49		mg/Kg	5	3/24/2022 10:06:55 PM	66338
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	5	3/24/2022 10:06:55 PM	66338

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-15

Project: Yates AS Fee Battery

Collection Date: 3/18/2022 12:20:00 PM

Lab ID: 2203B39-030

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	350	60		mg/Kg	20	3/28/2022 7:49:28 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	86	9.5		mg/Kg	1	3/24/2022 5:28:15 PM	66359
Motor Oil Range Organics (MRO)	150	47		mg/Kg	1	3/24/2022 5:28:15 PM	66359
Surr: DNOP	90.1	51.1-141		%Rec	1	3/24/2022 5:28:15 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 10:30:29 PM	66338
Surr: BFB	108	37.7-212		%Rec	1	3/24/2022 10:30:29 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/24/2022 10:30:29 PM	66338
Toluene	ND	0.049		mg/Kg	1	3/24/2022 10:30:29 PM	66338
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 10:30:29 PM	66338
Xylenes, Total	ND	0.098		mg/Kg	1	3/24/2022 10:30:29 PM	66338
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	3/24/2022 10:30:29 PM	66338

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-16

Project: Yates AS Fee Battery

Collection Date: 3/18/2022 12:25:00 PM

Lab ID: 2203B39-031

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	200	60		mg/Kg	20	3/28/2022 8:01:48 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/24/2022 5:52:40 PM	66359
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/24/2022 5:52:40 PM	66359
Surr: DNOP	89.0	51.1-141		%Rec	1	3/24/2022 5:52:40 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/24/2022 10:54:03 PM	66338
Surr: BFB	104	37.7-212		%Rec	1	3/24/2022 10:54:03 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/24/2022 10:54:03 PM	66338
Toluene	ND	0.048		mg/Kg	1	3/24/2022 10:54:03 PM	66338
Ethylbenzene	ND	0.048		mg/Kg	1	3/24/2022 10:54:03 PM	66338
Xylenes, Total	ND	0.097		mg/Kg	1	3/24/2022 10:54:03 PM	66338
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	3/24/2022 10:54:03 PM	66338

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

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

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Analytical Report

Lab Order 2203B39

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-17

Project: Yates AS Fee Battery

Collection Date: 3/18/2022 12:30:00 PM

Lab ID: 2203B39-032

Matrix: SOIL

Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	85	60		mg/Kg	20	3/28/2022 9:03:32 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	110	9.8		mg/Kg	1	3/24/2022 6:17:21 PM	66359
Motor Oil Range Organics (MRO)	190	49		mg/Kg	1	3/24/2022 6:17:21 PM	66359
Surr: DNOP	81.6	51.1-141		%Rec	1	3/24/2022 6:17:21 PM	66359
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/24/2022 11:17:28 PM	66338
Surr: BFB	107	37.7-212		%Rec	1	3/24/2022 11:17:28 PM	66338
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/24/2022 11:17:28 PM	66338
Toluene	ND	0.050		mg/Kg	1	3/24/2022 11:17:28 PM	66338
Ethylbenzene	ND	0.050		mg/Kg	1	3/24/2022 11:17:28 PM	66338
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 11:17:28 PM	66338
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	3/24/2022 11:17:28 PM	66338

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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#: 2203B39

05-Apr-22

Client: GHD Midland**Project:** Yates AS Fee Battery

Sample ID: MB-66436	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66436	RunNo: 86789								
Prep Date: 3/28/2022	Analysis Date: 3/28/2022	SeqNo: 3065423 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66436	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66436	RunNo: 86789								
Prep Date: 3/28/2022	Analysis Date: 3/28/2022	SeqNo: 3065424 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Sample ID: MB-66445	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66445	RunNo: 86811								
Prep Date: 3/28/2022	Analysis Date: 3/28/2022	SeqNo: 3065610 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66445	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66445	RunNo: 86811								
Prep Date: 3/28/2022	Analysis Date: 3/28/2022	SeqNo: 3065611 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Sample ID: MB-66450	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66450	RunNo: 86811								
Prep Date: 3/28/2022	Analysis Date: 3/28/2022	SeqNo: 3065644 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66450	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66450	RunNo: 86811								
Prep Date: 3/28/2022	Analysis Date: 3/28/2022	SeqNo: 3065645 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.7	90	110			

Qualifiers:

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

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

WO#: 2203B39

05-Apr-22

Client: GHD Midland**Project:** Yates AS Fee Battery

Sample ID: LCS-66359	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66359			RunNo: 86720						
Prep Date: 3/23/2022	Analysis Date: 3/24/2022			SeqNo: 3061758		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	4.1		5.000		81.6	51.1	141			

Sample ID: MB-66359	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66359			RunNo: 86720						
Prep Date: 3/23/2022	Analysis Date: 3/24/2022			SeqNo: 3061759		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	8.7		10.00		87.3	51.1	141			

Sample ID: LCS-66339	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66339			RunNo: 86708						
Prep Date: 3/23/2022	Analysis Date: 3/24/2022			SeqNo: 3061782		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.3	68.9	135			
Surr: DNOP	3.7		5.000		74.5	51.1	141			

Sample ID: MB-66339	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66339			RunNo: 86708						
Prep Date: 3/23/2022	Analysis Date: 3/24/2022			SeqNo: 3061783		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.7	51.1	141			

Sample ID: 2203B39-020AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-86	Batch ID: 66359			RunNo: 86720						
Prep Date: 3/23/2022	Analysis Date: 3/24/2022			SeqNo: 3062736		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	280	9.9	49.70	131.1	304	36.1	154			S
Surr: DNOP	4.4		4.970		89.1	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#: 2203B39

05-Apr-22

Client: GHD Midland

Project: Yates AS Fee Battery

Sample ID: 2203B39-020AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-86		Batch ID: 66359			RunNo: 86720					
Prep Date: 3/23/2022		Analysis Date: 3/24/2022			SeqNo: 3062737		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	170	10	49.85	131.1	82.1	36.1	154	48.5	33.9	R
Surr: DNOP	4.1		4.985		83.2	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		

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

WO#: 2203B39

05-Apr-22

Client: GHD Midland**Project:** Yates AS Fee Battery

Sample ID: mb-66332	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66332			RunNo: 86691						
Prep Date: 3/22/2022	Analysis Date: 3/23/2022			SeqNo: 3061125		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		111	37.7	212			

Sample ID: lcs-66332	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66332			RunNo: 86691						
Prep Date: 3/22/2022	Analysis Date: 3/23/2022			SeqNo: 3061126		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2300		1000		227	37.7	212			S

Sample ID: mb-66338	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 66338			RunNo: 86732						
Prep Date: 3/22/2022	Analysis Date: 3/24/2022			SeqNo: 3062171		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: lcs-66338	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 66338			RunNo: 86732						
Prep Date: 3/22/2022	Analysis Date: 3/24/2022			SeqNo: 3062172		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	98.1	72.3	137			
Surr: BFB	2200		1000		219	37.7	212			S

Sample ID: 2203b39-020ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-86	Batch ID: 66338			RunNo: 86732						
Prep Date: 3/22/2022	Analysis Date: 3/24/2022			SeqNo: 3062174		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.65	0	89.9	70	130			
Surr: BFB	2100		986.2		217	37.7	212			S

Sample ID: 2203b39-020amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-86	Batch ID: 66338			RunNo: 86732						
Prep Date: 3/22/2022	Analysis Date: 3/24/2022			SeqNo: 3062175		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#: 2203B39

05-Apr-22

Client: GHD Midland**Project:** Yates AS Fee Battery

Sample ID: 2203b39-020amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-86	Batch ID: 66338		RunNo: 86732							
Prep Date: 3/22/2022	Analysis Date: 3/24/2022		SeqNo: 3062175		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.56	0	103	70	130	13.6	20	
Surr: BFB	2200		982.3		223	37.7	212	0	0	S

Sample ID: mb-66382	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66382		RunNo: 86765							
Prep Date: 3/24/2022	Analysis Date: 3/26/2022		SeqNo: 3063885		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	37.7	212			

Sample ID: lcs-66382	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66382		RunNo: 86765							
Prep Date: 3/24/2022	Analysis Date: 3/25/2022		SeqNo: 3063886		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		219	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#: 2203B39

05-Apr-22

Client: GHD Midland**Project:** Yates AS Fee Battery

Sample ID: mb-66332	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66332	RunNo: 86691								
Prep Date: 3/22/2022	Analysis Date: 3/23/2022	SeqNo: 3061171 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: lcs-66332	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66332	RunNo: 86691								
Prep Date: 3/22/2022	Analysis Date: 3/23/2022	SeqNo: 3061173 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	88.8	80	120			
Toluene	0.91	0.050	1.000	0	91.5	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	70	130			

Sample ID: 2203b39-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-67	Batch ID: 66332	RunNo: 86691								
Prep Date: 3/22/2022	Analysis Date: 3/23/2022	SeqNo: 3061176 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9560	0	95.9	68.8	120			
Toluene	0.95	0.048	0.9560	0	99.8	73.6	124			
Ethylbenzene	0.97	0.048	0.9560	0	101	72.7	129			
Xylenes, Total	2.9	0.096	2.868	0	101	75.7	126			
Surr: 4-Bromofluorobenzene	0.88		0.9560		91.8	70	130			

Sample ID: 2203b39-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-67	Batch ID: 66332	RunNo: 86691								
Prep Date: 3/22/2022	Analysis Date: 3/23/2022	SeqNo: 3061177 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9756	0	102	68.8	120	8.17	20	
Toluene	1.0	0.049	0.9756	0	107	73.6	124	8.63	20	
Ethylbenzene	1.1	0.049	0.9756	0	108	72.7	129	9.01	20	
Xylenes, Total	3.2	0.098	2.927	0	108	75.7	126	8.75	20	
Surr: 4-Bromofluorobenzene	0.89		0.9756		90.9	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		

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

WO#: 2203B39

05-Apr-22

Client: GHD Midland**Project:** Yates AS Fee Battery

Sample ID: mb-66338	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66338	RunNo: 86732								
Prep Date: 3/22/2022	Analysis Date: 3/24/2022	SeqNo: 3062210	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	70	130			

Sample ID: LCS-66338	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66338	RunNo: 86732								
Prep Date: 3/22/2022	Analysis Date: 3/24/2022	SeqNo: 3062211	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.0	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 2203b39-021ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-87	Batch ID: 66338	RunNo: 86732								
Prep Date: 3/22/2022	Analysis Date: 3/24/2022	SeqNo: 3062214	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9756	0	80.3	68.8	120			
Toluene	0.86	0.049	0.9756	0	87.9	73.6	124			
Ethylbenzene	0.87	0.049	0.9756	0.01337	88.0	72.7	129			
Xylenes, Total	2.6	0.098	2.927	0.03396	89.2	75.7	126			
Surr: 4-Bromofluorobenzene	0.99		0.9756		101	70	130			

Sample ID: 2203b39-021amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-87	Batch ID: 66338	RunNo: 86732								
Prep Date: 3/22/2022	Analysis Date: 3/24/2022	SeqNo: 3062215	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9980	0	81.4	68.8	120	3.68	20	
Toluene	0.88	0.050	0.9980	0	88.2	73.6	124	2.64	20	
Ethylbenzene	0.90	0.050	0.9980	0.01337	88.5	72.7	129	2.75	20	
Xylenes, Total	2.7	0.10	2.994	0.03396	88.7	75.7	126	1.70	20	
Surr: 4-Bromofluorobenzene	1.0		0.9980		104	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2203B39

05-Apr-22

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: mb-66382	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66382	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/26/2022	SeqNo: 3063943	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	70	130			

Sample ID: LCS-66382	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66382	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063944	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 40 of 40



**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: 2203B39

RcptNo: 1

Received By: Cheyenne Cason 3/22/2022 7:15:00 AM

Completed By: Cheyenne Cason 3/22/2022 8:13:20 AM

Reviewed By: KPG 3/22/22

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: JR 3/22/22

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: _____

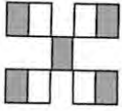
16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Not Present			
2	3.5	Good	Not Present			

Chain-of-Custody Record

Client: GHD		Turn-Around Time: ☒ Standard ☒ Rush <u>5-dg</u>	
Mailing Address:		Project Name: <u>Vates As For Battery</u>	
324 W. Main St. Suite 108, Artesia NM 88210		Project #: <u>11228401</u>	
Phone #: (505)377-4218		Project Manager: <u>Becky Haskell</u>	
email or Fax#: <u>Becky.Haskell@ghd.com</u>		Tom Larson	
QA/QC Package:		Sampler: <u>Zach Comino</u>	
☐ Standard ☐ Level 4 (Full Validation)		On Ice: ☒ Yes ☐ No	
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other		# of Coolers: <u>2</u> <u>5.0 + 0 = 5.0</u>	
☐ EDD (Type)		Cooler Temp (including CF): <u>3.5 + 0 = 3.5</u>	
Date	Time	Matrix	Sample Name
03/17/22	0940	S	BH-67
	0945		BH-68
	0950		BH-69
	0955		BH-70
	1000		BH-71
	1005		BH-72
	1035		BH-73
	1040		BH-74
	1045		BH-75
	1050		BH-76
	1055		BH-77
	1100		BH-78
Date:	Time:	Relinquished by:	Relinquished by:
03/18/22	1600	Michelle Demaris	Michelle Demaris
Date:	Time:	Relinquished by:	Relinquished by:
03/18/22	1900	Michelle Demaris	Michelle Demaris



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

PTX / MTBE / TMB's (8021)	TPH: 8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
α	α									✓

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

Direct Bill to EOG Chase Settle

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

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2, 5, 0 + 0 = 5.0

Cooler Temp (including CF): 3.5, 0 = 3.5

Container Type and #

Preservative Type

HEAL No.

2203B39

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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: Yates Fee AS Battery

OrderNo.: 2203C72

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 29 sample(s) on 3/24/2022 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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-92

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:00:00 AM

Lab ID: 2203C72-001

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2100	61		mg/Kg	20	3/28/2022 10:05:15 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	140	10		mg/Kg	1	3/25/2022 3:37:21 PM	66387
Motor Oil Range Organics (MRO)	180	50		mg/Kg	1	3/25/2022 3:37:21 PM	66387
Surr: DNOP	94.9	51.1-141		%Rec	1	3/25/2022 3:37:21 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/25/2022 9:38:28 PM	66382
Surr: BFB	106	37.7-212		%Rec	1	3/25/2022 9:38:28 PM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/25/2022 9:38:28 PM	66382
Toluene	ND	0.048		mg/Kg	1	3/25/2022 9:38:28 PM	66382
Ethylbenzene	ND	0.048		mg/Kg	1	3/25/2022 9:38:28 PM	66382
Xylenes, Total	ND	0.095		mg/Kg	1	3/25/2022 9:38:28 PM	66382
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	3/25/2022 9:38:28 PM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-93

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:05:00 AM

Lab ID: 2203C72-002

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2600	150		mg/Kg	50	3/29/2022 2:57:07 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	220	9.9		mg/Kg	1	3/25/2022 4:51:10 PM	66387
Motor Oil Range Organics (MRO)	230	49		mg/Kg	1	3/25/2022 4:51:10 PM	66387
Surr: DNOP	88.6	51.1-141		%Rec	1	3/25/2022 4:51:10 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/25/2022 10:48:58 PM	66382
Surr: BFB	101	37.7-212		%Rec	1	3/25/2022 10:48:58 PM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/25/2022 10:48:58 PM	66382
Toluene	ND	0.047		mg/Kg	1	3/25/2022 10:48:58 PM	66382
Ethylbenzene	ND	0.047		mg/Kg	1	3/25/2022 10:48:58 PM	66382
Xylenes, Total	ND	0.094		mg/Kg	1	3/25/2022 10:48:58 PM	66382
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	3/25/2022 10:48:58 PM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-94

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:15:00 AM

Lab ID: 2203C72-003

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	3/28/2022 10:54:40 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	110	9.3		mg/Kg	1	3/25/2022 5:15:39 PM	66387
Motor Oil Range Organics (MRO)	160	47		mg/Kg	1	3/25/2022 5:15:39 PM	66387
Surr: DNOP	81.0	51.1-141		%Rec	1	3/25/2022 5:15:39 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/25/2022 11:59:34 PM	66382
Surr: BFB	105	37.7-212		%Rec	1	3/25/2022 11:59:34 PM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/25/2022 11:59:34 PM	66382
Toluene	ND	0.047		mg/Kg	1	3/25/2022 11:59:34 PM	66382
Ethylbenzene	ND	0.047		mg/Kg	1	3/25/2022 11:59:34 PM	66382
Xylenes, Total	ND	0.094		mg/Kg	1	3/25/2022 11:59:34 PM	66382
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	3/25/2022 11:59:34 PM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-95

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:20:00 AM

Lab ID: 2203C72-004

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	560	60		mg/Kg	20	3/28/2022 11:31:42 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	3700	99		mg/Kg	10	3/28/2022 2:41:08 PM	66387
Motor Oil Range Organics (MRO)	2400	500		mg/Kg	10	3/28/2022 2:41:08 PM	66387
Surr: DNOP	0	51.1-141	S	%Rec	10	3/28/2022 2:41:08 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Surr: BFB	109	37.7-212		%Rec	5	3/26/2022 12:23:02 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Toluene	ND	0.24		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Ethylbenzene	ND	0.24		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Xylenes, Total	ND	0.48		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	5	3/26/2022 12:23:02 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-96

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:25:00 AM

Lab ID: 2203C72-005

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	430	61		mg/Kg	20	3/28/2022 11:44:02 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/25/2022 11:38:40 AM	66387
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/25/2022 11:38:40 AM	66387
Surr: DNOP	77.8	51.1-141		%Rec	1	3/25/2022 11:38:40 AM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/26/2022 12:46:34 AM	66382
Surr: BFB	105	37.7-212		%Rec	1	3/26/2022 12:46:34 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 12:46:34 AM	66382
Toluene	ND	0.049		mg/Kg	1	3/26/2022 12:46:34 AM	66382
Ethylbenzene	ND	0.049		mg/Kg	1	3/26/2022 12:46:34 AM	66382
Xylenes, Total	ND	0.098		mg/Kg	1	3/26/2022 12:46:34 AM	66382
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	3/26/2022 12:46:34 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-97

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:30:00 AM

Lab ID: 2203C72-006

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	480	60		mg/Kg	20	3/28/2022 11:56:24 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/25/2022 12:02:49 PM	66387
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/25/2022 12:02:49 PM	66387
Surr: DNOP	83.6	51.1-141		%Rec	1	3/25/2022 12:02:49 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/26/2022 1:10:04 AM	66382
Surr: BFB	111	37.7-212		%Rec	1	3/26/2022 1:10:04 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 1:10:04 AM	66382
Toluene	ND	0.048		mg/Kg	1	3/26/2022 1:10:04 AM	66382
Ethylbenzene	ND	0.048		mg/Kg	1	3/26/2022 1:10:04 AM	66382
Xylenes, Total	ND	0.096		mg/Kg	1	3/26/2022 1:10:04 AM	66382
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	3/26/2022 1:10:04 AM	66382

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

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

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Analytical Report

Lab Order 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-98

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:35:00 AM

Lab ID: 2203C72-007

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	320	60		mg/Kg	20	3/29/2022 12:08:45 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/25/2022 6:29:19 PM	66387
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/25/2022 6:29:19 PM	66387
Surr: DNOP	98.0	51.1-141		%Rec	1	3/25/2022 6:29:19 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/26/2022 1:33:34 AM	66382
Surr: BFB	106	37.7-212		%Rec	1	3/26/2022 1:33:34 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/26/2022 1:33:34 AM	66382
Toluene	ND	0.050		mg/Kg	1	3/26/2022 1:33:34 AM	66382
Ethylbenzene	ND	0.050		mg/Kg	1	3/26/2022 1:33:34 AM	66382
Xylenes, Total	ND	0.10		mg/Kg	1	3/26/2022 1:33:34 AM	66382
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	3/26/2022 1:33:34 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-99

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:40:00 AM

Lab ID: 2203C72-008

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	60		mg/Kg	20	3/29/2022 12:21:05 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/25/2022 6:53:48 PM	66387
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/25/2022 6:53:48 PM	66387
Surr: DNOP	87.8	51.1-141		%Rec	1	3/25/2022 6:53:48 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/26/2022 1:56:55 AM	66382
Surr: BFB	119	37.7-212		%Rec	1	3/26/2022 1:56:55 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 1:56:55 AM	66382
Toluene	ND	0.048		mg/Kg	1	3/26/2022 1:56:55 AM	66382
Ethylbenzene	ND	0.048		mg/Kg	1	3/26/2022 1:56:55 AM	66382
Xylenes, Total	ND	0.095		mg/Kg	1	3/26/2022 1:56:55 AM	66382
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	3/26/2022 1:56:55 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-100

Project: Yates Fee AS Battery

Collection Date: 3/21/2022 10:45:00 AM

Lab ID: 2203C72-009

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/29/2022 12:33:26 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	13	9.1		mg/Kg	1	3/25/2022 7:18:21 PM	66387
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/25/2022 7:18:21 PM	66387
Surr: DNOP	92.6	51.1-141		%Rec	1	3/25/2022 7:18:21 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/26/2022 3:30:57 AM	66382
Surr: BFB	106	37.7-212		%Rec	1	3/26/2022 3:30:57 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 3:30:57 AM	66382
Toluene	ND	0.048		mg/Kg	1	3/26/2022 3:30:57 AM	66382
Ethylbenzene	ND	0.048		mg/Kg	1	3/26/2022 3:30:57 AM	66382
Xylenes, Total	ND	0.096		mg/Kg	1	3/26/2022 3:30:57 AM	66382
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	3/26/2022 3:30:57 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-101

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:00:00 AM

Lab ID: 2203C72-010

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	59		mg/Kg	20	3/29/2022 1:10:28 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	9.4	9.3		mg/Kg	1	3/25/2022 7:42:48 PM	66387
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/25/2022 7:42:48 PM	66387
Surr: DNOP	87.0	51.1-141		%Rec	1	3/25/2022 7:42:48 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/26/2022 3:54:24 AM	66382
Surr: BFB	108	37.7-212		%Rec	1	3/26/2022 3:54:24 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/26/2022 3:54:24 AM	66382
Toluene	ND	0.049		mg/Kg	1	3/26/2022 3:54:24 AM	66382
Ethylbenzene	ND	0.049		mg/Kg	1	3/26/2022 3:54:24 AM	66382
Xylenes, Total	ND	0.098		mg/Kg	1	3/26/2022 3:54:24 AM	66382
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	3/26/2022 3:54:24 AM	66382

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

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

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Analytical Report

Lab Order 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-102

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:05:00 AM

Lab ID: 2203C72-011

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	60		mg/Kg	20	3/29/2022 1:22:48 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	3/25/2022 8:07:13 PM	66387
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/25/2022 8:07:13 PM	66387
Surr: DNOP	91.0	51.1-141		%Rec	1	3/25/2022 8:07:13 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/26/2022 4:17:54 AM	66382
Surr: BFB	108	37.7-212		%Rec	1	3/26/2022 4:17:54 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 4:17:54 AM	66382
Toluene	ND	0.048		mg/Kg	1	3/26/2022 4:17:54 AM	66382
Ethylbenzene	ND	0.048		mg/Kg	1	3/26/2022 4:17:54 AM	66382
Xylenes, Total	ND	0.096		mg/Kg	1	3/26/2022 4:17:54 AM	66382
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	3/26/2022 4:17:54 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-103

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:10:00 AM

Lab ID: 2203C72-012

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	3/29/2022 1:59:50 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	25	10		mg/Kg	1	3/25/2022 8:31:31 PM	66387
Motor Oil Range Organics (MRO)	51	50		mg/Kg	1	3/25/2022 8:31:31 PM	66387
Surr: DNOP	88.9	51.1-141		%Rec	1	3/25/2022 8:31:31 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/26/2022 4:41:24 AM	66382
Surr: BFB	104	37.7-212		%Rec	1	3/26/2022 4:41:24 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 4:41:24 AM	66382
Toluene	ND	0.048		mg/Kg	1	3/26/2022 4:41:24 AM	66382
Ethylbenzene	ND	0.048		mg/Kg	1	3/26/2022 4:41:24 AM	66382
Xylenes, Total	ND	0.096		mg/Kg	1	3/26/2022 4:41:24 AM	66382
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	3/26/2022 4:41:24 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-104

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:15:00 AM

Lab ID: 2203C72-013

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2100	60		mg/Kg	20	3/29/2022 2:12:12 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	68	9.8		mg/Kg	1	3/25/2022 8:56:01 PM	66387
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	3/25/2022 8:56:01 PM	66387
Surr: DNOP	95.5	51.1-141		%Rec	1	3/25/2022 8:56:01 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/26/2022 5:04:54 AM	66382
Surr: BFB	107	37.7-212		%Rec	1	3/26/2022 5:04:54 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 5:04:54 AM	66382
Toluene	ND	0.048		mg/Kg	1	3/26/2022 5:04:54 AM	66382
Ethylbenzene	ND	0.048		mg/Kg	1	3/26/2022 5:04:54 AM	66382
Xylenes, Total	ND	0.096		mg/Kg	1	3/26/2022 5:04:54 AM	66382
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	3/26/2022 5:04:54 AM	66382

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

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

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Analytical Report

Lab Order 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-105

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:20:00 AM

Lab ID: 2203C72-014

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	60		mg/Kg	20	3/29/2022 2:24:33 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/25/2022 9:44:37 PM	66387
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/25/2022 9:44:37 PM	66387
Surr: DNOP	91.6	51.1-141		%Rec	1	3/25/2022 9:44:37 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/26/2022 5:28:23 AM	66382
Surr: BFB	111	37.7-212		%Rec	1	3/26/2022 5:28:23 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/26/2022 5:28:23 AM	66382
Toluene	ND	0.050		mg/Kg	1	3/26/2022 5:28:23 AM	66382
Ethylbenzene	ND	0.050		mg/Kg	1	3/26/2022 5:28:23 AM	66382
Xylenes, Total	ND	0.099		mg/Kg	1	3/26/2022 5:28:23 AM	66382
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	3/26/2022 5:28:23 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-106

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:25:00 AM

Lab ID: 2203C72-015

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	220	60		mg/Kg	20	3/29/2022 2:36:54 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	99	10		mg/Kg	1	3/25/2022 10:08:57 PM	66387
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	3/25/2022 10:08:57 PM	66387
Surr: DNOP	96.1	51.1-141		%Rec	1	3/25/2022 10:08:57 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/26/2022 5:51:47 AM	66382
Surr: BFB	107	37.7-212		%Rec	1	3/26/2022 5:51:47 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/26/2022 5:51:47 AM	66382
Toluene	ND	0.049		mg/Kg	1	3/26/2022 5:51:47 AM	66382
Ethylbenzene	ND	0.049		mg/Kg	1	3/26/2022 5:51:47 AM	66382
Xylenes, Total	ND	0.098		mg/Kg	1	3/26/2022 5:51:47 AM	66382
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	3/26/2022 5:51:47 AM	66382

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-107

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:30:00 AM

Lab ID: 2203C72-016

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5300	300		mg/Kg	100	3/31/2022 11:04:39 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	68	9.8		mg/Kg	1	3/25/2022 10:57:36 PM	66387
Motor Oil Range Organics (MRO)	67	49		mg/Kg	1	3/25/2022 10:57:36 PM	66387
Surr: DNOP	96.1	51.1-141		%Rec	1	3/25/2022 10:57:36 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/26/2022 6:15:11 AM	66382
Surr: BFB	107	37.7-212		%Rec	1	3/26/2022 6:15:11 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 6:15:11 AM	66382
Toluene	ND	0.048		mg/Kg	1	3/26/2022 6:15:11 AM	66382
Ethylbenzene	ND	0.048		mg/Kg	1	3/26/2022 6:15:11 AM	66382
Xylenes, Total	ND	0.095		mg/Kg	1	3/26/2022 6:15:11 AM	66382
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	3/26/2022 6:15:11 AM	66382

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

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

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Analytical Report

Lab Order 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-108

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:35:00 AM

Lab ID: 2203C72-017

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	140	60		mg/Kg	20	3/30/2022 11:08:06 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	12	9.3		mg/Kg	1	3/25/2022 11:21:49 PM	66387
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/25/2022 11:21:49 PM	66387
Surr: DNOP	89.8	51.1-141		%Rec	1	3/25/2022 11:21:49 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/26/2022 6:38:35 AM	66382
Surr: BFB	108	37.7-212		%Rec	1	3/26/2022 6:38:35 AM	66382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/26/2022 6:38:35 AM	66382
Toluene	ND	0.047		mg/Kg	1	3/26/2022 6:38:35 AM	66382
Ethylbenzene	ND	0.047		mg/Kg	1	3/26/2022 6:38:35 AM	66382
Xylenes, Total	ND	0.095		mg/Kg	1	3/26/2022 6:38:35 AM	66382
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/26/2022 6:38:35 AM	66382

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

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

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Analytical Report

Lab Order 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-109

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:40:00 AM

Lab ID: 2203C72-018

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5200	150		mg/Kg	50	3/31/2022 11:17:03 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	27	9.5		mg/Kg	1	3/25/2022 11:46:02 PM	66387
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/25/2022 11:46:02 PM	66387
Surr: DNOP	90.9	51.1-141		%Rec	1	3/25/2022 11:46:02 PM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/25/2022 2:12:19 PM	66386
Surr: BFB	107	37.7-212		%Rec	1	3/25/2022 2:12:19 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/25/2022 2:12:19 PM	66386
Toluene	ND	0.048		mg/Kg	1	3/25/2022 2:12:19 PM	66386
Ethylbenzene	ND	0.048		mg/Kg	1	3/25/2022 2:12:19 PM	66386
Xylenes, Total	ND	0.097		mg/Kg	1	3/25/2022 2:12:19 PM	66386
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	3/25/2022 2:12:19 PM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-110

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:42:00 AM

Lab ID: 2203C72-019

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	77	60		mg/Kg	20	3/30/2022 11:32:56 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/26/2022 12:10:18 AM	66387
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2022 12:10:18 AM	66387
Surr: DNOP	76.6	51.1-141		%Rec	1	3/26/2022 12:10:18 AM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/25/2022 3:22:42 PM	66386
Surr: BFB	108	37.7-212		%Rec	1	3/25/2022 3:22:42 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/25/2022 3:22:42 PM	66386
Toluene	ND	0.049		mg/Kg	1	3/25/2022 3:22:42 PM	66386
Ethylbenzene	ND	0.049		mg/Kg	1	3/25/2022 3:22:42 PM	66386
Xylenes, Total	ND	0.099		mg/Kg	1	3/25/2022 3:22:42 PM	66386
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	3/25/2022 3:22:42 PM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-111

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:45:00 AM

Lab ID: 2203C72-020

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3900	150		mg/Kg	50	3/31/2022 11:29:28 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	77	9.2		mg/Kg	1	3/26/2022 12:34:25 AM	66387
Motor Oil Range Organics (MRO)	64	46		mg/Kg	1	3/26/2022 12:34:25 AM	66387
Surr: DNOP	93.9	51.1-141		%Rec	1	3/26/2022 12:34:25 AM	66387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/25/2022 4:33:06 PM	66386
Surr: BFB	107	37.7-212		%Rec	1	3/25/2022 4:33:06 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/25/2022 4:33:06 PM	66386
Toluene	ND	0.048		mg/Kg	1	3/25/2022 4:33:06 PM	66386
Ethylbenzene	ND	0.048		mg/Kg	1	3/25/2022 4:33:06 PM	66386
Xylenes, Total	ND	0.096		mg/Kg	1	3/25/2022 4:33:06 PM	66386
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	3/25/2022 4:33:06 PM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-112

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:50:00 AM

Lab ID: 2203C72-021

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	60		mg/Kg	20	3/30/2022 12:22:35 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	340	9.7		mg/Kg	1	3/28/2022 2:22:51 PM	66391
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	3/28/2022 2:22:51 PM	66391
Surr: DNOP	96.5	51.1-141		%Rec	1	3/28/2022 2:22:51 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/25/2022 4:56:36 PM	66386
Surr: BFB	106	37.7-212		%Rec	1	3/25/2022 4:56:36 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/25/2022 4:56:36 PM	66386
Toluene	ND	0.047		mg/Kg	1	3/25/2022 4:56:36 PM	66386
Ethylbenzene	ND	0.047		mg/Kg	1	3/25/2022 4:56:36 PM	66386
Xylenes, Total	ND	0.094		mg/Kg	1	3/25/2022 4:56:36 PM	66386
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/25/2022 4:56:36 PM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-113

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 10:55:00 AM

Lab ID: 2203C72-022

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	60		mg/Kg	20	3/30/2022 3:53:35 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2700	190		mg/Kg	20	3/25/2022 12:58:17 PM	66391
Motor Oil Range Organics (MRO)	1500	960		mg/Kg	20	3/25/2022 12:58:17 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	20	3/25/2022 12:58:17 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Surr: BFB	108	37.7-212		%Rec	5	3/26/2022 9:46:27 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	5	3/26/2022 9:46:27 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-114

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 11:00:00 AM

Lab ID: 2203C72-023

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1500	60		mg/Kg	20	3/30/2022 4:06:00 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	540	48		mg/Kg	5	3/28/2022 4:10:27 PM	66391
Motor Oil Range Organics (MRO)	530	240		mg/Kg	5	3/28/2022 4:10:27 PM	66391
Surr: DNOP	62.9	51.1-141		%Rec	5	3/28/2022 4:10:27 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/25/2022 10:40:06 AM	66386
Surr: BFB	113	37.7-212		%Rec	5	3/25/2022 10:40:06 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/25/2022 10:40:06 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/25/2022 10:40:06 AM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/25/2022 10:40:06 AM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/25/2022 10:40:06 AM	66386
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	5	3/25/2022 10:40:06 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-115

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 11:05:00 AM

Lab ID: 2203C72-024

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1800	60		mg/Kg	20	3/30/2022 4:18:25 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	170	9.6		mg/Kg	1	3/28/2022 3:16:57 PM	66391
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	3/28/2022 3:16:57 PM	66391
Surr: DNOP	88.5	51.1-141		%Rec	1	3/28/2022 3:16:57 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/25/2022 11:04:12 AM	66386
Surr: BFB	115	37.7-212		%Rec	5	3/25/2022 11:04:12 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/25/2022 11:04:12 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/25/2022 11:04:12 AM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/25/2022 11:04:12 AM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/25/2022 11:04:12 AM	66386
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	5	3/25/2022 11:04:12 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-116

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 11:10:00 AM

Lab ID: 2203C72-025

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2600	150		mg/Kg	50	3/31/2022 11:41:53 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	260	9.3		mg/Kg	1	3/28/2022 3:27:41 PM	66391
Motor Oil Range Organics (MRO)	180	47		mg/Kg	1	3/28/2022 3:27:41 PM	66391
Surr: DNOP	107	51.1-141		%Rec	1	3/28/2022 3:27:41 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	3/25/2022 11:28:17 AM	66386
Surr: BFB	113	37.7-212		%Rec	5	3/25/2022 11:28:17 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/25/2022 11:28:17 AM	66386
Toluene	ND	0.23		mg/Kg	5	3/25/2022 11:28:17 AM	66386
Ethylbenzene	ND	0.23		mg/Kg	5	3/25/2022 11:28:17 AM	66386
Xylenes, Total	ND	0.47		mg/Kg	5	3/25/2022 11:28:17 AM	66386
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	5	3/25/2022 11:28:17 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-117

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 11:15:00 AM

Lab ID: 2203C72-026

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	980	60		mg/Kg	20	3/30/2022 12:59:50 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	38	9.9		mg/Kg	1	3/25/2022 1:41:07 PM	66391
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/25/2022 1:41:07 PM	66391
Surr: DNOP	99.0	51.1-141		%Rec	1	3/25/2022 1:41:07 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/25/2022 11:51:40 AM	66386
Surr: BFB	108	37.7-212		%Rec	5	3/25/2022 11:51:40 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/25/2022 11:51:40 AM	66386
Toluene	ND	0.25		mg/Kg	5	3/25/2022 11:51:40 AM	66386
Ethylbenzene	ND	0.25		mg/Kg	5	3/25/2022 11:51:40 AM	66386
Xylenes, Total	ND	0.50		mg/Kg	5	3/25/2022 11:51:40 AM	66386
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	5	3/25/2022 11:51:40 AM	66386

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

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

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Analytical Report

Lab Order 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-118

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 11:20:00 AM

Lab ID: 2203C72-027

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	4400	150		mg/Kg	50	3/31/2022 11:54:17 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	930	47		mg/Kg	5	3/28/2022 4:31:44 PM	66391
Motor Oil Range Organics (MRO)	480	240		mg/Kg	5	3/28/2022 4:31:44 PM	66391
Surr: DNOP	94.0	51.1-141		%Rec	5	3/28/2022 4:31:44 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/26/2022 10:10:00 AM	66386
Surr: BFB	122	37.7-212		%Rec	5	3/26/2022 10:10:00 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 10:10:00 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 10:10:00 AM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/26/2022 10:10:00 AM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/26/2022 10:10:00 AM	66386
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	5	3/26/2022 10:10:00 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-119

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 11:30:00 AM

Lab ID: 2203C72-028

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3300	150		mg/Kg	50	3/31/2022 12:06:42 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	480	9.7		mg/Kg	1	3/28/2022 3:38:24 PM	66391
Motor Oil Range Organics (MRO)	220	49		mg/Kg	1	3/28/2022 3:38:24 PM	66391
Surr: DNOP	99.1	51.1-141		%Rec	1	3/28/2022 3:38:24 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/25/2022 5:19:59 PM	66386
Surr: BFB	117	37.7-212		%Rec	5	3/25/2022 5:19:59 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/25/2022 5:19:59 PM	66386
Toluene	ND	0.24		mg/Kg	5	3/25/2022 5:19:59 PM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/25/2022 5:19:59 PM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/25/2022 5:19:59 PM	66386
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	5	3/25/2022 5:19:59 PM	66386

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

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

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Analytical Report

Lab Order 2203C72

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-120

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 11:35:00 AM

Lab ID: 2203C72-029

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	4100	150		mg/Kg	50	3/31/2022 1:33:34 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	520	9.6		mg/Kg	1	3/28/2022 3:49:08 PM	66391
Motor Oil Range Organics (MRO)	220	48		mg/Kg	1	3/28/2022 3:49:08 PM	66391
Surr: DNOP	82.6	51.1-141		%Rec	1	3/28/2022 3:49:08 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/25/2022 5:43:21 PM	66386
Surr: BFB	136	37.7-212		%Rec	5	3/25/2022 5:43:21 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/25/2022 5:43:21 PM	66386
Toluene	ND	0.24		mg/Kg	5	3/25/2022 5:43:21 PM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/25/2022 5:43:21 PM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/25/2022 5:43:21 PM	66386
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	5	3/25/2022 5:43:21 PM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not 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#: 2203C72

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: MB-66450	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66450	RunNo: 86811								
Prep Date: 3/28/2022	Analysis Date: 3/28/2022	SeqNo: 3065644	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66450	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66450	RunNo: 86811								
Prep Date: 3/28/2022	Analysis Date: 3/28/2022	SeqNo: 3065645	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.7	90	110			

Sample ID: MB-66497	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66497	RunNo: 86850								
Prep Date: 3/30/2022	Analysis Date: 3/30/2022	SeqNo: 3069013	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66497	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66497	RunNo: 86850								
Prep Date: 3/30/2022	Analysis Date: 3/30/2022	SeqNo: 3069014	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

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

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

WO#: 2203C72

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: 2203C72-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-92	Batch ID: 66387	RunNo: 86773								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3064188	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	200	9.9	49.60	142.8	121	36.1	154			
Surr: DNOP	4.5		4.960		90.8	51.1	141			

Sample ID: 2203C72-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-92	Batch ID: 66387	RunNo: 86773								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3064189	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	170	9.5	47.44	142.8	66.9	36.1	154	14.9	33.9	
Surr: DNOP	3.8		4.744		80.3	51.1	141	0	0	

Sample ID: LCS-66387	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66387	RunNo: 86773								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3064209	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.8	68.9	135			
Surr: DNOP	4.2		5.000		84.1	51.1	141			

Sample ID: MB-66387	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66387	RunNo: 86773								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3064210	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	9.1		10.00		91.0	51.1	141			

Sample ID: LCS-66391	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66391	RunNo: 86774								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3064236	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	68.9	135			
Surr: DNOP	4.1		5.000		82.2	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#: 2203C72

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: MB-66391	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66391	RunNo: 86774								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3064238			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	51.1	141			

Sample ID: 2203C72-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-112	Batch ID: 66391	RunNo: 86781								
Prep Date: 3/24/2022	Analysis Date: 3/28/2022	SeqNo: 3065092			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	380	9.4	47.08	337.5	86.2	36.1	154			
Surr: DNOP	3.2		4.708		67.8	51.1	141			

Sample ID: 2203C72-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-112	Batch ID: 66391	RunNo: 86781								
Prep Date: 3/24/2022	Analysis Date: 3/28/2022	SeqNo: 3065093			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	260	9.9	49.41	337.5	-148	36.1	154	35.3	33.9	RS
Surr: DNOP	3.5		4.941		71.2	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#: 2203C72

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66386	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063856 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	37.7	212			

Sample ID: lcs-66386	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063857 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	72.3	137			
Surr: BFB	2200		1000		224	37.7	212			S

Sample ID: 2203c72-018ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-109	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063859 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	5.0	24.75	0	133	70	130			S
Surr: BFB	2400		990.1		246	37.7	212			S

Sample ID: 2203c72-018amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-109	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063860 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	24.18	0	128	70	130	5.62	20	
Surr: BFB	2400		967.1		252	37.7	212	0	0	S

Sample ID: mb-66382	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66382	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/26/2022	SeqNo: 3063885 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	37.7	212			

Sample ID: lcs-66382	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66382	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063886 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#: 2203C72

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: Ics-66382	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 66382				RunNo: 86765					
Prep Date: 3/24/2022	Analysis Date: 3/25/2022				SeqNo: 3063886	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.3	72.3	137			
Surr: BFB	2200		1000		219	37.7	212			S

Sample ID: 2203c72-001ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH-92	Batch ID: 66382				RunNo: 86765					
Prep Date: 3/24/2022	Analysis Date: 3/25/2022				SeqNo: 3063888	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.08	0	105	70	130			
Surr: BFB	2200		963.4		230	37.7	212			S

Sample ID: 2203c72-001amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH-92	Batch ID: 66382				RunNo: 86765					
Prep Date: 3/24/2022	Analysis Date: 3/25/2022				SeqNo: 3063889	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.72	0	102	70	130	3.92	20	
Surr: BFB	2200		948.8		232	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#: 2203C72

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66386	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063914	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		98.4	70	130			

Sample ID: LCS-66386	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063915	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	80	120			
Toluene	0.90	0.050	1.000	0	89.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: 2203c72-019ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-110	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063918	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9699	0	101	68.8	120			
Toluene	1.1	0.048	0.9699	0	109	73.6	124			
Ethylbenzene	1.1	0.048	0.9699	0	112	72.7	129			
Xylenes, Total	3.3	0.097	2.910	0	112	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9699		101	70	130			

Sample ID: 2203c72-019amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-110	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063919	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9681	0	98.0	68.8	120	3.15	20	
Toluene	1.0	0.048	0.9681	0	106	73.6	124	2.76	20	
Ethylbenzene	1.1	0.048	0.9681	0	110	72.7	129	2.75	20	
Xylenes, Total	3.2	0.097	2.904	0	109	75.7	126	3.20	20	
Surr: 4-Bromofluorobenzene	0.99		0.9681		103	70	130	0	0	

Qualifiers:

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

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

WO#: 2203C72

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66382	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66382	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/26/2022	SeqNo: 3063943	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		97.9	70	130			

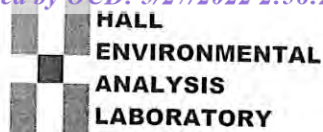
Sample ID: LCS-66382	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66382	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063944	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.5	80	120			
Toluene	0.88	0.050	1.000	0	88.0	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 2203c72-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-93	Batch ID: 66382	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063947	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9425	0	98.6	68.8	120			
Toluene	1.0	0.047	0.9425	0	107	73.6	124			
Ethylbenzene	1.0	0.047	0.9425	0	110	72.7	129			
Xylenes, Total	3.1	0.094	2.828	0	109	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9425		95.1	70	130			

Sample ID: 2203c72-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-93	Batch ID: 66382	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063948	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.023	0.9346	0	87.0	68.8	120	13.4	20	
Toluene	0.89	0.047	0.9346	0	95.3	73.6	124	12.7	20	
Ethylbenzene	0.92	0.047	0.9346	0	97.9	72.7	129	12.9	20	
Xylenes, Total	2.7	0.093	2.804	0	97.0	75.7	126	12.2	20	
Surr: 4-Bromofluorobenzene	0.89		0.9346		95.4	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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: 2203C72

RcptNo: 1

Received By: Cheyenne Cason

3/24/2022 7:30:00 AM

Completed By: Sean Livingston

3/24/2022 8:15:54 AM

Reviewed By: KPG 3/24/22

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 3/24/22

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	1.1	Good				

Page 1 of 3

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 AM

Project Name:

Yokoy Fee AS Battery

Project #:

1128401

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including op): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Container Type and #

Preservative Type

HEAL No.

22000000

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002

003

004

005

006

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

April 05, 2022

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

RE: Yates Fee AS Battery

OrderNo.: 2203C86

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 11 sample(s) on 3/24/2022 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 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-121

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 1:25:00 PM

Lab ID: 2203C86-001

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5100	300		mg/Kg	100	3/31/2022 11:18:13 AM	66498
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2100	96		mg/Kg	10	3/28/2022 5:03:58 PM	66391
Motor Oil Range Organics (MRO)	950	480		mg/Kg	10	3/28/2022 5:03:58 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	10	3/28/2022 5:03:58 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Surr: BFB	140	37.7-212		%Rec	5	3/26/2022 10:33:42 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	5	3/26/2022 10:33:42 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-122

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 1:30:00 PM

Lab ID: 2203C86-002

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4700	150		mg/Kg	50	3/31/2022 11:30:34 AM	66498
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	52	9.5		mg/Kg	1	3/25/2022 2:45:24 PM	66391
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/25/2022 2:45:24 PM	66391
Surr: DNOP	108	51.1-141		%Rec	1	3/25/2022 2:45:24 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/25/2022 6:30:30 PM	66386
Surr: BFB	107	37.7-212		%Rec	5	3/25/2022 6:30:30 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/25/2022 6:30:30 PM	66386
Toluene	ND	0.24		mg/Kg	5	3/25/2022 6:30:30 PM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/25/2022 6:30:30 PM	66386
Xylenes, Total	ND	0.49		mg/Kg	5	3/25/2022 6:30:30 PM	66386
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	5	3/25/2022 6:30:30 PM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-123

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 1:35:00 PM

Lab ID: 2203C86-003

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6100	300		mg/Kg	100	3/31/2022 11:42:55 AM	66498
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	6300	97		mg/Kg	10	3/29/2022 12:38:54 PM	66391
Motor Oil Range Organics (MRO)	2100	480		mg/Kg	10	3/29/2022 12:38:54 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	10	3/29/2022 12:38:54 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	370	93		mg/Kg	20	3/25/2022 9:28:23 AM	66386
Surr: BFB	254	37.7-212	S	%Rec	20	3/25/2022 9:28:23 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.46	D	mg/Kg	20	3/25/2022 9:28:23 AM	66386
Toluene	ND	0.93	D	mg/Kg	20	3/25/2022 9:28:23 AM	66386
Ethylbenzene	13	0.93	D	mg/Kg	20	3/25/2022 9:28:23 AM	66386
Xylenes, Total	16	1.9	D	mg/Kg	20	3/25/2022 9:28:23 AM	66386
Surr: 4-Bromofluorobenzene	118	70-130	D	%Rec	20	3/25/2022 9:28:23 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-18

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 1:40:00 PM

Lab ID: 2203C86-004

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6100	300		mg/Kg	100	3/31/2022 11:55:16 AM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3500	180		mg/Kg	20	3/25/2022 3:06:56 PM	66391
Motor Oil Range Organics (MRO)	1300	910		mg/Kg	20	3/25/2022 3:06:56 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	20	3/25/2022 3:06:56 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	120	24		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Surr: BFB	335	37.7-212	S	%Rec	5	3/26/2022 10:57:24 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Ethylbenzene	3.0	0.24		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Xylenes, Total	2.2	0.48		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	5	3/26/2022 10:57:24 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-19

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 1:45:00 PM

Lab ID: 2203C86-005

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4000	150		mg/Kg	50	3/31/2022 12:07:36 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1500	98		mg/Kg	10	3/25/2022 3:17:51 PM	66391
Motor Oil Range Organics (MRO)	700	490		mg/Kg	10	3/25/2022 3:17:51 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	10	3/25/2022 3:17:51 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	51	24		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Surr: BFB	239	37.7-212	S	%Rec	5	3/26/2022 11:21:06 AM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Ethylbenzene	0.42	0.24		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Xylenes, Total	ND	0.49		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	5	3/26/2022 11:21:06 AM	66386

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-20

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 1:50:00 PM

Lab ID: 2203C86-006

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4200	150		mg/Kg	50	3/31/2022 12:19:57 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/25/2022 3:28:47 PM	66391
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/25/2022 3:28:47 PM	66391
Surr: DNOP	116	51.1-141		%Rec	1	3/25/2022 3:28:47 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/25/2022 8:04:56 PM	66386
Surr: BFB	106	37.7-212		%Rec	1	3/25/2022 8:04:56 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/25/2022 8:04:56 PM	66386
Toluene	ND	0.047		mg/Kg	1	3/25/2022 8:04:56 PM	66386
Ethylbenzene	ND	0.047		mg/Kg	1	3/25/2022 8:04:56 PM	66386
Xylenes, Total	ND	0.095		mg/Kg	1	3/25/2022 8:04:56 PM	66386
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	3/25/2022 8:04:56 PM	66386

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

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

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Analytical Report

Lab Order 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-21

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 1:55:00 PM

Lab ID: 2203C86-007

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3700	150		mg/Kg	50	3/31/2022 12:32:18 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/25/2022 3:39:40 PM	66391
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/25/2022 3:39:40 PM	66391
Surr: DNOP	120	51.1-141		%Rec	1	3/25/2022 3:39:40 PM	66391
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/25/2022 8:28:22 PM	66386
Surr: BFB	108	37.7-212		%Rec	1	3/25/2022 8:28:22 PM	66386
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/25/2022 8:28:22 PM	66386
Toluene	ND	0.048		mg/Kg	1	3/25/2022 8:28:22 PM	66386
Ethylbenzene	ND	0.048		mg/Kg	1	3/25/2022 8:28:22 PM	66386
Xylenes, Total	ND	0.095		mg/Kg	1	3/25/2022 8:28:22 PM	66386
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	3/25/2022 8:28:22 PM	66386

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

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

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Analytical Report

Lab Order 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-22

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 2:00:00 PM

Lab ID: 2203C86-008

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2700	150		mg/Kg	50	3/31/2022 1:09:21 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.2		mg/Kg	1	3/29/2022 10:38:37 PM	66452
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/29/2022 10:38:37 PM	66452
Surr: DNOP	72.2	51.1-141		%Rec	1	3/29/2022 10:38:37 PM	66452
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2022 6:35:00 PM	66412
Surr: BFB	102	37.7-212		%Rec	1	3/28/2022 6:35:00 PM	66412
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/28/2022 6:35:00 PM	66412
Toluene	ND	0.049		mg/Kg	1	3/28/2022 6:35:00 PM	66412
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2022 6:35:00 PM	66412
Xylenes, Total	ND	0.099		mg/Kg	1	3/28/2022 6:35:00 PM	66412
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	3/28/2022 6:35:00 PM	66412

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

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

Analytical Report

Lab Order 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-23

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 2:05:00 PM

Lab ID: 2203C86-009

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5200	300		mg/Kg	100	3/31/2022 1:21:42 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.6		mg/Kg	1	3/29/2022 10:49:10 PM	66452
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/29/2022 10:49:10 PM	66452
Surr: DNOP	77.4	51.1-141		%Rec	1	3/29/2022 10:49:10 PM	66452
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/28/2022 8:13:00 PM	66412
Surr: BFB	98.0	37.7-212		%Rec	1	3/28/2022 8:13:00 PM	66412
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/28/2022 8:13:00 PM	66412
Toluene	ND	0.048		mg/Kg	1	3/28/2022 8:13:00 PM	66412
Ethylbenzene	ND	0.048		mg/Kg	1	3/28/2022 8:13:00 PM	66412
Xylenes, Total	ND	0.096		mg/Kg	1	3/28/2022 8:13:00 PM	66412
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	3/28/2022 8:13:00 PM	66412

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

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

Analytical Report

Lab Order 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-24

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 2:10:00 PM

Lab ID: 2203C86-010

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6400	300		mg/Kg	100	3/31/2022 1:34:02 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1400	95		mg/Kg	10	3/30/2022 6:44:42 PM	66452
Motor Oil Range Organics (MRO)	650	480		mg/Kg	10	3/30/2022 6:44:42 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	10	3/30/2022 6:44:42 PM	66452
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Surr: BFB	128	37.7-212		%Rec	5	3/28/2022 9:12:00 PM	66412
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Toluene	ND	0.25		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Ethylbenzene	ND	0.25		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Xylenes, Total	ND	0.50		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	5	3/28/2022 9:12:00 PM	66412

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

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

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Analytical Report

Lab Order 2203C86

Date Reported: 4/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-25

Project: Yates Fee AS Battery

Collection Date: 3/22/2022 2:15:00 PM

Lab ID: 2203C86-011

Matrix: SOIL

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7300	300		mg/Kg	100	3/31/2022 1:46:23 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2400	96		mg/Kg	10	3/30/2022 6:34:00 PM	66452
Motor Oil Range Organics (MRO)	930	480		mg/Kg	10	3/30/2022 6:34:00 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	10	3/30/2022 6:34:00 PM	66452
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Surr: BFB	154	37.7-212		%Rec	5	3/28/2022 9:31:00 PM	66412
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Toluene	ND	0.24		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Ethylbenzene	ND	0.24		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Xylenes, Total	ND	0.49		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	5	3/28/2022 9:31:00 PM	66412

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

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

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

WO#: 2203C86

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: MB-66498	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66498	RunNo: 86869								
Prep Date: 3/30/2022	Analysis Date: 3/30/2022	SeqNo: 3068829 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66498	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66498	RunNo: 86869								
Prep Date: 3/30/2022	Analysis Date: 3/30/2022	SeqNo: 3068830 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Sample ID: MB-66517	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66517	RunNo: 86869								
Prep Date: 3/30/2022	Analysis Date: 3/30/2022	SeqNo: 3068868 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66517	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66517	RunNo: 86869								
Prep Date: 3/30/2022	Analysis Date: 3/30/2022	SeqNo: 3068869 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2203C86

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: LCS-66391	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66391			RunNo: 86774						
Prep Date: 3/24/2022	Analysis Date: 3/25/2022			SeqNo: 3064236		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	68.9	135			
Surr: DNOP	4.1		5.000		82.2	51.1	141			

Sample ID: MB-66391	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66391			RunNo: 86774						
Prep Date: 3/24/2022	Analysis Date: 3/25/2022			SeqNo: 3064238		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	51.1	141			

Sample ID: 2203C86-008AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SW-22	Batch ID: 66452			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/30/2022			SeqNo: 3066717		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.8	48.88	10.93	79.7	36.1	154			
Surr: DNOP	3.5		4.888		71.5	51.1	141			

Sample ID: 2203C86-008AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SW-22	Batch ID: 66452			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/30/2022			SeqNo: 3066718		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.8	49.07	10.93	83.1	36.1	154	3.58	33.9	
Surr: DNOP	3.5		4.907		72.0	51.1	141	0	0	

Sample ID: LCS-66452	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66452			RunNo: 86803						
Prep Date: 3/28/2022	Analysis Date: 3/29/2022			SeqNo: 3066792		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	68.9	135			
Surr: DNOP	4.6		5.000		91.8	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2203C86
05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: MB-66452	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66452	RunNo: 86803								
Prep Date: 3/28/2022	Analysis Date: 3/29/2022	SeqNo: 3066796	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	51.1	141			

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#: 2203C86

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66386	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063856 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	37.7	212			

Sample ID: lcs-66386	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063857 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	72.3	137			
Surr: BFB	2200		1000		224	37.7	212			S

Sample ID: lcs-66412	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065000 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	124	72.3	137			
Surr: BFB	2300		1000		231	37.7	212			S

Sample ID: mb-66412	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065001 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	37.7	212			

Sample ID: 2203c86-008ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SW-22	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065021 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	24.13	0	115	70	130			
Surr: BFB	2100		965.3		220	37.7	212			S

Sample ID: 2203c86-008amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SW-22	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065022 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#: 2203C86

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: 2203c86-008amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SW-22	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065022	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.61	0	111	70	130	0.917	20	
Surr: BFB	2200		984.3		220	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		

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

WO#: 2203C86

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66386	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063914 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		98.4	70	130			

Sample ID: LCS-66386	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66386	RunNo: 86765								
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: 3063915 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	80	120			
Toluene	0.90	0.050	1.000	0	89.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: lcs-66412	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065042 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.3	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.6	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	70	130			

Sample ID: mb-66412	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065043 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	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#: 2203C86

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: 2203c86-009ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-23	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065064	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9921	0	81.0	68.8	120			
Toluene	0.84	0.050	0.9921	0	85.1	73.6	124			
Ethylbenzene	0.86	0.050	0.9921	0	87.1	72.7	129			
Xylenes, Total	2.6	0.099	2.976	0	86.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.82		0.9921		82.3	70	130			

Sample ID: 2203c86-009amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-23	Batch ID: 66412	RunNo: 86795								
Prep Date: 3/25/2022	Analysis Date: 3/28/2022	SeqNo: 3065065	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9901	0	82.3	68.8	120	1.39	20	
Toluene	0.86	0.050	0.9901	0	87.0	73.6	124	1.93	20	
Ethylbenzene	0.88	0.050	0.9901	0	89.1	72.7	129	1.99	20	
Xylenes, Total	2.6	0.099	2.970	0	88.9	75.7	126	2.09	20	
Surr: 4-Bromofluorobenzene	0.84		0.9901		84.8	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203C86

RcptNo: 1

Received By: Cheyenne Cason 3/24/2022 7:30:00 AM

Completed By: Desiree Dominguez 3/24/2022 9:35:19 AM

Reviewed By: *CM* *3/24/22*

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: *Adjusted?* (<2 or >12 unless noted)
- Checked by: *3/24/22*

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	1.1	Good				



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

April 18, 2022

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

RE: Yates AS Fee

OrderNo.: 2204061

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-1

Project: Yates AS Fee

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

Lab ID: 2204061-001

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2900	150		mg/Kg	50	4/7/2022 12:24:48 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	670	48		mg/Kg	5	4/6/2022 1:49:24 PM	66650
Motor Oil Range Organics (MRO)	350	240		mg/Kg	5	4/6/2022 1:49:24 PM	66650
Surr: DNOP	74.0	51.1-141		%Rec	5	4/6/2022 1:49:24 PM	66650
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	5.1	3.1		mg/Kg	1	4/2/2022 11:55:00 PM	A86939
Surr: BFB	208	37.7-212		%Rec	1	4/2/2022 11:55:00 PM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.016		mg/Kg	1	4/2/2022 11:55:00 PM	C86939
Toluene	ND	0.031		mg/Kg	1	4/2/2022 11:55:00 PM	C86939
Ethylbenzene	ND	0.031		mg/Kg	1	4/2/2022 11:55:00 PM	C86939
Xylenes, Total	ND	0.062		mg/Kg	1	4/2/2022 11:55:00 PM	C86939
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	4/2/2022 11:55:00 PM	C86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-2

Project: Yates AS Fee

Collection Date: 3/30/2022 12:35:00 PM

Lab ID: 2204061-002

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3300	150		mg/Kg	50	4/7/2022 12:37:08 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1400	46		mg/Kg	5	4/6/2022 2:10:37 PM	66650
Motor Oil Range Organics (MRO)	520	230		mg/Kg	5	4/6/2022 2:10:37 PM	66650
Surr: DNOP	102	51.1-141		%Rec	5	4/6/2022 2:10:37 PM	66650
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	16	3.2		mg/Kg	1	4/3/2022 12:15:00 AM	A86939
Surr: BFB	214	37.7-212	S	%Rec	1	4/3/2022 12:15:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.016		mg/Kg	1	4/3/2022 12:15:00 AM	C86939
Toluene	ND	0.032		mg/Kg	1	4/3/2022 12:15:00 AM	C86939
Ethylbenzene	0.038	0.032		mg/Kg	1	4/3/2022 12:15:00 AM	C86939
Xylenes, Total	ND	0.065		mg/Kg	1	4/3/2022 12:15:00 AM	C86939
Surr: 4-Bromofluorobenzene	135	70-130	S	%Rec	1	4/3/2022 12:15:00 AM	C86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 15

Analytical Report

Lab Order 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-3

Project: Yates AS Fee

Collection Date: 3/30/2022 12:40:00 PM

Lab ID: 2204061-003

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3500	150		mg/Kg	50	4/7/2022 12:49:29 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1200	49		mg/Kg	5	4/6/2022 2:31:54 PM	66650
Motor Oil Range Organics (MRO)	500	240		mg/Kg	5	4/6/2022 2:31:54 PM	66650
Surr: DNOP	52.6	51.1-141		%Rec	5	4/6/2022 2:31:54 PM	66650
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	5.5	3.5		mg/Kg	1	4/3/2022 12:35:00 AM	A86939
Surr: BFB	195	37.7-212		%Rec	1	4/3/2022 12:35:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.018		mg/Kg	1	4/3/2022 12:35:00 AM	C86939
Toluene	ND	0.035		mg/Kg	1	4/3/2022 12:35:00 AM	C86939
Ethylbenzene	ND	0.035		mg/Kg	1	4/3/2022 12:35:00 AM	C86939
Xylenes, Total	ND	0.071		mg/Kg	1	4/3/2022 12:35:00 AM	C86939
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	4/3/2022 12:35:00 AM	C86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-4

Project: Yates AS Fee

Collection Date: 3/30/2022 12:45:00 PM

Lab ID: 2204061-004

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1200	60		mg/Kg	20	4/4/2022 5:29:52 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	610	20		mg/Kg	2	4/6/2022 2:53:11 PM	66650
Motor Oil Range Organics (MRO)	300	98		mg/Kg	2	4/6/2022 2:53:11 PM	66650
Surr: DNOP	96.3	51.1-141		%Rec	2	4/6/2022 2:53:11 PM	66650
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/3/2022 12:54:00 AM	A86939
Surr: BFB	120	37.7-212		%Rec	1	4/3/2022 12:54:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.017		mg/Kg	1	4/3/2022 12:54:00 AM	C86939
Toluene	ND	0.034		mg/Kg	1	4/3/2022 12:54:00 AM	C86939
Ethylbenzene	ND	0.034		mg/Kg	1	4/3/2022 12:54:00 AM	C86939
Xylenes, Total	ND	0.068		mg/Kg	1	4/3/2022 12:54:00 AM	C86939
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	4/3/2022 12:54:00 AM	C86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-5

Project: Yates AS Fee

Collection Date: 3/30/2022 12:50:00 PM

Lab ID: 2204061-005

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1100	60		mg/Kg	20	4/4/2022 5:42:16 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	160	9.5		mg/Kg	1	4/6/2022 3:24:56 PM	66650
Motor Oil Range Organics (MRO)	82	48		mg/Kg	1	4/6/2022 3:24:56 PM	66650
Surr: DNOP	91.5	51.1-141		%Rec	1	4/6/2022 3:24:56 PM	66650
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	4/3/2022 1:14:00 AM	A86939
Surr: BFB	100	37.7-212		%Rec	1	4/3/2022 1:14:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.022		mg/Kg	1	4/3/2022 1:14:00 AM	C86939
Toluene	ND	0.043		mg/Kg	1	4/3/2022 1:14:00 AM	C86939
Ethylbenzene	ND	0.043		mg/Kg	1	4/3/2022 1:14:00 AM	C86939
Xylenes, Total	ND	0.087		mg/Kg	1	4/3/2022 1:14:00 AM	C86939
Surr: 4-Bromofluorobenzene	80.5	70-130		%Rec	1	4/3/2022 1:14:00 AM	C86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-6

Project: Yates AS Fee

Collection Date: 3/30/2022 12:55:00 PM

Lab ID: 2204061-006

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	7200	300		mg/Kg	100	4/7/2022 1:01:49 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	440	9.6		mg/Kg	1	4/5/2022 10:18:28 AM	66612
Motor Oil Range Organics (MRO)	200	48		mg/Kg	1	4/5/2022 10:18:28 AM	66612
Surr: DNOP	110	51.1-141		%Rec	1	4/5/2022 10:18:28 AM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	3.8	3.0		mg/Kg	1	4/3/2022 1:34:00 AM	A86939
Surr: BFB	169	37.7-212		%Rec	1	4/3/2022 1:34:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.015		mg/Kg	1	4/3/2022 1:34:00 AM	C86939
Toluene	ND	0.030		mg/Kg	1	4/3/2022 1:34:00 AM	C86939
Ethylbenzene	ND	0.030		mg/Kg	1	4/3/2022 1:34:00 AM	C86939
Xylenes, Total	ND	0.061		mg/Kg	1	4/3/2022 1:34:00 AM	C86939
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	4/3/2022 1:34:00 AM	C86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-7

Project: Yates AS Fee

Collection Date: 3/30/2022 1:00:00 PM

Lab ID: 2204061-007

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	6600	300		mg/Kg	100	4/7/2022 1:14:10 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	300	9.3		mg/Kg	1	4/5/2022 11:58:26 AM	66612
Motor Oil Range Organics (MRO)	150	46		mg/Kg	1	4/5/2022 11:58:26 AM	66612
Surr: DNOP	88.8	51.1-141		%Rec	1	4/5/2022 11:58:26 AM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/3/2022 1:53:00 AM	A86939
Surr: BFB	152	37.7-212		%Rec	1	4/3/2022 1:53:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.019		mg/Kg	1	4/3/2022 1:53:00 AM	C86939
Toluene	ND	0.037		mg/Kg	1	4/3/2022 1:53:00 AM	C86939
Ethylbenzene	ND	0.037		mg/Kg	1	4/3/2022 1:53:00 AM	C86939
Xylenes, Total	ND	0.074		mg/Kg	1	4/3/2022 1:53:00 AM	C86939
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	4/3/2022 1:53:00 AM	C86939

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

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

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Analytical Report

Lab Order 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-8

Project: Yates AS Fee

Collection Date: 3/30/2022 1:05:00 PM

Lab ID: 2204061-008

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1800	61		mg/Kg	20	4/5/2022 2:02:40 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	220	9.5		mg/Kg	1	4/5/2022 10:42:30 AM	66612
Motor Oil Range Organics (MRO)	120	47		mg/Kg	1	4/5/2022 10:42:30 AM	66612
Surr: DNOP	115	51.1-141		%Rec	1	4/5/2022 10:42:30 AM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	4/3/2022 2:13:00 AM	A86939
Surr: BFB	108	37.7-212		%Rec	1	4/3/2022 2:13:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.016		mg/Kg	1	4/3/2022 2:13:00 AM	C86939
Toluene	ND	0.031		mg/Kg	1	4/3/2022 2:13:00 AM	C86939
Ethylbenzene	ND	0.031		mg/Kg	1	4/3/2022 2:13:00 AM	C86939
Xylenes, Total	ND	0.063		mg/Kg	1	4/3/2022 2:13:00 AM	C86939
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	4/3/2022 2:13:00 AM	C86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-9

Project: Yates AS Fee

Collection Date: 3/30/2022 1:10:00 PM

Lab ID: 2204061-009

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1900	60		mg/Kg	20	4/5/2022 2:15:05 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	450	10		mg/Kg	1	4/5/2022 11:06:34 AM	66612
Motor Oil Range Organics (MRO)	220	50		mg/Kg	1	4/5/2022 11:06:34 AM	66612
Surr: DNOP	116	51.1-141		%Rec	1	4/5/2022 11:06:34 AM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	4/3/2022 2:33:00 AM	A86939
Surr: BFB	124	37.7-212		%Rec	1	4/3/2022 2:33:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.016		mg/Kg	1	4/3/2022 2:33:00 AM	C86939
Toluene	ND	0.031		mg/Kg	1	4/3/2022 2:33:00 AM	C86939
Ethylbenzene	ND	0.031		mg/Kg	1	4/3/2022 2:33:00 AM	C86939
Xylenes, Total	ND	0.062		mg/Kg	1	4/3/2022 2:33:00 AM	C86939
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	4/3/2022 2:33:00 AM	C86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204061

Date Reported: 4/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-10

Project: Yates AS Fee

Collection Date: 3/30/2022 1:15:00 PM

Lab ID: 2204061-010

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1900	60		mg/Kg	20	4/5/2022 2:27:29 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	420	9.1		mg/Kg	1	4/5/2022 10:18:24 AM	66612
Motor Oil Range Organics (MRO)	190	46		mg/Kg	1	4/5/2022 10:18:24 AM	66612
Surr: DNOP	97.7	51.1-141		%Rec	1	4/5/2022 10:18:24 AM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	4/3/2022 2:53:00 AM	A86939
Surr: BFB	123	37.7-212		%Rec	1	4/3/2022 2:53:00 AM	A86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.016		mg/Kg	1	4/3/2022 2:53:00 AM	R86939
Toluene	ND	0.032		mg/Kg	1	4/3/2022 2:53:00 AM	R86939
Ethylbenzene	ND	0.032		mg/Kg	1	4/3/2022 2:53:00 AM	R86939
Xylenes, Total	ND	0.063		mg/Kg	1	4/3/2022 2:53:00 AM	R86939
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	4/3/2022 2:53:00 AM	R86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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#: 2204061

18-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: MB-66597	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66597	RunNo: 86968								
Prep Date: 4/4/2022	Analysis Date: 4/4/2022	SeqNo: 3073845 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66597	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66597	RunNo: 86968								
Prep Date: 4/4/2022	Analysis Date: 4/4/2022	SeqNo: 3073846 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.5	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			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2204061

18-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: 2204061-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BHX-1	Batch ID: 66612	RunNo: 86990								
Prep Date: 4/4/2022	Analysis Date: 4/5/2022	SeqNo: 3074035 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	750	9.9	49.70	627.7	246	36.1	154			S
Surr: DNOP	4.2		4.970		85.0	51.1	141			

Sample ID: 2204061-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BHX-1	Batch ID: 66612	RunNo: 86990								
Prep Date: 4/4/2022	Analysis Date: 4/5/2022	SeqNo: 3074036 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	780	9.9	49.70	627.7	316	36.1	154	4.51	33.9	S
Surr: DNOP	4.4		4.970		87.5	51.1	141	0	0	

Sample ID: MB-66612	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66612	RunNo: 86991								
Prep Date: 4/4/2022	Analysis Date: 4/5/2022	SeqNo: 3074090 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	26		10.00		256	51.1	141			S

Sample ID: LCS-66612	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66612	RunNo: 86991								
Prep Date: 4/4/2022	Analysis Date: 4/5/2022	SeqNo: 3074094 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	106	68.9	135			
Surr: DNOP	5.3		5.000		106	51.1	141			

Sample ID: MB-66650	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66650	RunNo: 87033								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3075736 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	8.6		10.00		86.1	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#: 2204061

18-Apr-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: LCS-66650		SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 66650				RunNo: 87033					
Prep Date: 4/5/2022	Analysis Date: 4/6/2022				SeqNo: 3075737		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	96.4	68.9	135			
Surr: DNOP	4.2		5.000		84.5	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

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

WO#: 2204061

18-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: A86939		RunNo: 86939							
Prep Date:	Analysis Date: 4/2/2022		SeqNo: 3071760		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	114	72.3	137			
Surr: BFB	2200		1000		225	37.7	212			S

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: A86939		RunNo: 86939							
Prep Date:	Analysis Date: 4/2/2022		SeqNo: 3071761		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	37.7	212			

Qualifiers:

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

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

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

WO#: 2204061

18-Apr-22

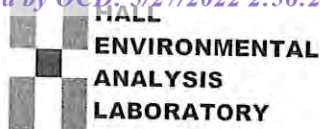
Client: GHD Midland**Project:** Yates AS Fee

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: C86939			RunNo: 86939						
Prep Date:	Analysis Date: 4/2/2022			SeqNo: 3071804		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	80	120			
Toluene	0.93	0.050	1.000	0	92.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: C86939			RunNo: 86939						
Prep Date:	Analysis Date: 4/2/2022			SeqNo: 3071805		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	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		



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: 2204061

RcptNo: 1

Received By: Tracy Casarrubias 4/2/2022 10:00:00 AM

Completed By: Tracy Casarrubias 4/2/2022 11:16:09 AM

Reviewed By: *m 04/02/2022*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: *TMC 4/2/22*

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	4.7	Good	Yes			
2	3.3	Good	Yes			

Chain-of-Custody Record

Client: GHD

Turn-Around Time:

☐ Standard ☒ Rush 24 hr

Project Name:

Yates AS Fee

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 CP): 1) 4.7 - 4.7

Container Type and #

Preservative Type

HEAL No.

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

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Sample Name

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Sample Name



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: Yates AS Fee

OrderNo.: 2204069

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 19 sample(s) on 4/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-1

Project: Yates AS Fee

Collection Date: 3/30/2022 1:30:00 PM

Lab ID: 2204069-001

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	840	60		mg/Kg	20	4/8/2022 5:30:39 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/6/2022 5:57:10 PM	66640
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/6/2022 5:57:10 PM	66640
Surr: DNOP	82.2	51.1-141		%Rec	1	4/6/2022 5:57:10 PM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2022 12:02:00 PM	66613
Surr: BFB	105	37.7-212		%Rec	1	4/6/2022 12:02:00 PM	66613
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 12:02:00 PM	66613
Toluene	ND	0.049		mg/Kg	1	4/6/2022 12:02:00 PM	66613
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2022 12:02:00 PM	66613
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2022 12:02:00 PM	66613
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	4/6/2022 12:02:00 PM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-2

Project: Yates AS Fee

Collection Date: 3/30/2022 1:35:00 PM

Lab ID: 2204069-002

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	870	60		mg/Kg	20	4/8/2022 6:07:54 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/6/2022 6:21:20 PM	66640
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/6/2022 6:21:20 PM	66640
Surr: DNOP	83.1	51.1-141		%Rec	1	4/6/2022 6:21:20 PM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2022 12:22:00 PM	66613
Surr: BFB	102	37.7-212		%Rec	1	4/6/2022 12:22:00 PM	66613
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 12:22:00 PM	66613
Toluene	ND	0.049		mg/Kg	1	4/6/2022 12:22:00 PM	66613
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2022 12:22:00 PM	66613
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2022 12:22:00 PM	66613
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	4/6/2022 12:22:00 PM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-3

Project: Yates AS Fee

Collection Date: 3/30/2022 1:40:00 PM

Lab ID: 2204069-003

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	740	60		mg/Kg	20	4/8/2022 6:20:19 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/6/2022 6:45:44 PM	66640
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2022 6:45:44 PM	66640
Surr: DNOP	82.0	51.1-141		%Rec	1	4/6/2022 6:45:44 PM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2022 12:41:00 PM	66613
Surr: BFB	99.0	37.7-212		%Rec	1	4/6/2022 12:41:00 PM	66613
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/6/2022 12:41:00 PM	66613
Toluene	ND	0.050		mg/Kg	1	4/6/2022 12:41:00 PM	66613
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2022 12:41:00 PM	66613
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2022 12:41:00 PM	66613
Surr: 4-Bromofluorobenzene	81.1	70-130		%Rec	1	4/6/2022 12:41:00 PM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-4

Project: Yates AS Fee

Collection Date: 3/30/2022 1:45:00 PM

Lab ID: 2204069-004

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	720	60		mg/Kg	20	4/8/2022 6:32:44 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/6/2022 7:10:07 PM	66640
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2022 7:10:07 PM	66640
Surr: DNOP	84.0	51.1-141		%Rec	1	4/6/2022 7:10:07 PM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/6/2022 1:01:00 PM	66613
Surr: BFB	99.7	37.7-212		%Rec	1	4/6/2022 1:01:00 PM	66613
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/6/2022 1:01:00 PM	66613
Toluene	ND	0.046		mg/Kg	1	4/6/2022 1:01:00 PM	66613
Ethylbenzene	ND	0.046		mg/Kg	1	4/6/2022 1:01:00 PM	66613
Xylenes, Total	ND	0.092		mg/Kg	1	4/6/2022 1:01:00 PM	66613
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	4/6/2022 1:01:00 PM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-5

Project: Yates AS Fee

Collection Date: 3/30/2022 1:50:00 PM

Lab ID: 2204069-005

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	650	60		mg/Kg	20	4/8/2022 6:45:09 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/6/2022 7:34:27 PM	66640
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/6/2022 7:34:27 PM	66640
Surr: DNOP	89.8	51.1-141		%Rec	1	4/6/2022 7:34:27 PM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2022 1:21:00 PM	66613
Surr: BFB	101	37.7-212		%Rec	1	4/6/2022 1:21:00 PM	66613
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 1:21:00 PM	66613
Toluene	ND	0.048		mg/Kg	1	4/6/2022 1:21:00 PM	66613
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2022 1:21:00 PM	66613
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2022 1:21:00 PM	66613
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	4/6/2022 1:21:00 PM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-6

Project: Yates AS Fee

Collection Date: 3/30/2022 1:55:00 PM

Lab ID: 2204069-006

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	720	60		mg/Kg	20	4/8/2022 6:57:33 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/6/2022 7:58:39 PM	66640
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/6/2022 7:58:39 PM	66640
Surr: DNOP	85.3	51.1-141		%Rec	1	4/6/2022 7:58:39 PM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2022 4:16:00 PM	66615
Surr: BFB	95.1	37.7-212		%Rec	1	4/5/2022 4:16:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 4:16:00 PM	66615
Toluene	ND	0.048		mg/Kg	1	4/5/2022 4:16:00 PM	66615
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2022 4:16:00 PM	66615
Xylenes, Total	ND	0.096		mg/Kg	1	4/5/2022 4:16:00 PM	66615
Surr: 4-Bromofluorobenzene	78.1	70-130		%Rec	1	4/5/2022 4:16:00 PM	66615

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-7

Project: Yates AS Fee

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

Lab ID: 2204069-007

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	710	60		mg/Kg	20	4/8/2022 7:09:57 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/6/2022 9:35:32 PM	66654
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/6/2022 9:35:32 PM	66654
Surr: DNOP	83.8	51.1-141		%Rec	1	4/6/2022 9:35:32 PM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2022 5:15:00 PM	66615
Surr: BFB	96.9	37.7-212		%Rec	1	4/5/2022 5:15:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 5:15:00 PM	66615
Toluene	ND	0.050		mg/Kg	1	4/5/2022 5:15:00 PM	66615
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2022 5:15:00 PM	66615
Xylenes, Total	ND	0.099		mg/Kg	1	4/5/2022 5:15:00 PM	66615
Surr: 4-Bromofluorobenzene	79.8	70-130		%Rec	1	4/5/2022 5:15:00 PM	66615

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

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

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Analytical Report

Lab Order 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-8

Project: Yates AS Fee

Collection Date: 3/30/2022 2:05:00 PM

Lab ID: 2204069-008

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	820	60		mg/Kg	20	4/8/2022 7:47:13 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/6/2022 10:47:58 PM	66654
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/6/2022 10:47:58 PM	66654
Surr: DNOP	86.6	51.1-141		%Rec	1	4/6/2022 10:47:58 PM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2022 6:14:00 PM	66615
Surr: BFB	97.3	37.7-212		%Rec	1	4/5/2022 6:14:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 6:14:00 PM	66615
Toluene	ND	0.048		mg/Kg	1	4/5/2022 6:14:00 PM	66615
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2022 6:14:00 PM	66615
Xylenes, Total	ND	0.096		mg/Kg	1	4/5/2022 6:14:00 PM	66615
Surr: 4-Bromofluorobenzene	80.8	70-130		%Rec	1	4/5/2022 6:14:00 PM	66615

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-9

Project: Yates AS Fee

Collection Date: 3/30/2022 2:10:00 PM

Lab ID: 2204069-009

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	780	60		mg/Kg	20	4/8/2022 8:49:17 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/6/2022 11:12:02 PM	66654
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2022 11:12:02 PM	66654
Surr: DNOP	87.6	51.1-141		%Rec	1	4/6/2022 11:12:02 PM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 6:34:00 PM	66615
Surr: BFB	100	37.7-212		%Rec	1	4/5/2022 6:34:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 6:34:00 PM	66615
Toluene	ND	0.049		mg/Kg	1	4/5/2022 6:34:00 PM	66615
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 6:34:00 PM	66615
Xylenes, Total	ND	0.099		mg/Kg	1	4/5/2022 6:34:00 PM	66615
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	4/5/2022 6:34:00 PM	66615

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-10

Project: Yates AS Fee

Collection Date: 3/30/2022 2:15:00 PM

Lab ID: 2204069-010

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	730	60		mg/Kg	20	4/8/2022 9:01:42 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/6/2022 11:36:11 PM	66654
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/6/2022 11:36:11 PM	66654
Surr: DNOP	86.7	51.1-141		%Rec	1	4/6/2022 11:36:11 PM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 6:53:00 PM	66615
Surr: BFB	99.4	37.7-212		%Rec	1	4/5/2022 6:53:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 6:53:00 PM	66615
Toluene	ND	0.049		mg/Kg	1	4/5/2022 6:53:00 PM	66615
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 6:53:00 PM	66615
Xylenes, Total	ND	0.099		mg/Kg	1	4/5/2022 6:53:00 PM	66615
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	4/5/2022 6:53:00 PM	66615

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-11

Project: Yates AS Fee

Collection Date: 3/30/2022 2:20:00 PM

Lab ID: 2204069-011

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	940	60		mg/Kg	20	4/8/2022 9:14:07 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/7/2022 12:00:12 AM	66654
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2022 12:00:12 AM	66654
Surr: DNOP	89.6	51.1-141		%Rec	1	4/7/2022 12:00:12 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 8:12:00 PM	66615
Surr: BFB	99.3	37.7-212		%Rec	1	4/5/2022 8:12:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 8:12:00 PM	66615
Toluene	ND	0.049		mg/Kg	1	4/5/2022 8:12:00 PM	66615
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 8:12:00 PM	66615
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2022 8:12:00 PM	66615
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	4/5/2022 8:12:00 PM	66615

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-12

Project: Yates AS Fee

Collection Date: 3/30/2022 2:25:00 PM

Lab ID: 2204069-012

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	900	60		mg/Kg	20	4/8/2022 9:26:31 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	29	9.3		mg/Kg	1	4/7/2022 12:24:23 AM	66654
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/7/2022 12:24:23 AM	66654
Surr: DNOP	91.8	51.1-141		%Rec	1	4/7/2022 12:24:23 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2022 8:32:00 PM	66615
Surr: BFB	102	37.7-212		%Rec	1	4/5/2022 8:32:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 8:32:00 PM	66615
Toluene	ND	0.050		mg/Kg	1	4/5/2022 8:32:00 PM	66615
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2022 8:32:00 PM	66615
Xylenes, Total	ND	0.10		mg/Kg	1	4/5/2022 8:32:00 PM	66615
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	4/5/2022 8:32:00 PM	66615

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

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

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Analytical Report

Lab Order 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-13

Project: Yates AS Fee

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

Lab ID: 2204069-013

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	940	59		mg/Kg	20	4/8/2022 9:38:56 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	25	10		mg/Kg	1	4/7/2022 12:48:21 AM	66654
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2022 12:48:21 AM	66654
Surr: DNOP	93.5	51.1-141		%Rec	1	4/7/2022 12:48:21 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 8:52:00 PM	66615
Surr: BFB	102	37.7-212		%Rec	1	4/5/2022 8:52:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 8:52:00 PM	66615
Toluene	ND	0.049		mg/Kg	1	4/5/2022 8:52:00 PM	66615
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 8:52:00 PM	66615
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2022 8:52:00 PM	66615
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	4/5/2022 8:52:00 PM	66615

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

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

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Analytical Report

Lab Order 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-14

Project: Yates AS Fee

Collection Date: 3/30/2022 2:35:00 PM

Lab ID: 2204069-014

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	720	60		mg/Kg	20	4/8/2022 9:51:21 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/7/2022 1:12:30 AM	66654
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/7/2022 1:12:30 AM	66654
Surr: DNOP	97.6	51.1-141		%Rec	1	4/7/2022 1:12:30 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/5/2022 9:12:00 PM	66615
Surr: BFB	106	37.7-212		%Rec	1	4/5/2022 9:12:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/5/2022 9:12:00 PM	66615
Toluene	ND	0.046		mg/Kg	1	4/5/2022 9:12:00 PM	66615
Ethylbenzene	ND	0.046		mg/Kg	1	4/5/2022 9:12:00 PM	66615
Xylenes, Total	ND	0.092		mg/Kg	1	4/5/2022 9:12:00 PM	66615
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	4/5/2022 9:12:00 PM	66615

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

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

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Analytical Report

Lab Order 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-15

Project: Yates AS Fee

Collection Date: 3/30/2022 2:40:00 PM

Lab ID: 2204069-015

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	620	60		mg/Kg	20	4/8/2022 10:03:46 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	610	9.9		mg/Kg	1	4/7/2022 1:36:29 AM	66654
Motor Oil Range Organics (MRO)	460	50		mg/Kg	1	4/7/2022 1:36:29 AM	66654
Surr: DNOP	89.8	51.1-141		%Rec	1	4/7/2022 1:36:29 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/5/2022 9:31:00 PM	66615
Surr: BFB	103	37.7-212		%Rec	5	4/5/2022 9:31:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/5/2022 9:31:00 PM	66615
Toluene	ND	0.25		mg/Kg	5	4/5/2022 9:31:00 PM	66615
Ethylbenzene	ND	0.25		mg/Kg	5	4/5/2022 9:31:00 PM	66615
Xylenes, Total	ND	0.50		mg/Kg	5	4/5/2022 9:31:00 PM	66615
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	5	4/5/2022 9:31:00 PM	66615

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-16

Project: Yates AS Fee

Collection Date: 3/30/2022 2:45:00 PM

Lab ID: 2204069-016

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	700	60		mg/Kg	20	4/8/2022 10:16:11 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	340	9.3		mg/Kg	1	4/8/2022 1:24:11 AM	66654
Motor Oil Range Organics (MRO)	320	46		mg/Kg	1	4/8/2022 1:24:11 AM	66654
Surr: DNOP	103	51.1-141		%Rec	1	4/8/2022 1:24:11 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 9:51:00 PM	66615
Surr: BFB	98.4	37.7-212		%Rec	1	4/5/2022 9:51:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 9:51:00 PM	66615
Toluene	ND	0.049		mg/Kg	1	4/5/2022 9:51:00 PM	66615
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 9:51:00 PM	66615
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2022 9:51:00 PM	66615
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	4/5/2022 9:51:00 PM	66615

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

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

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Analytical Report

Lab Order 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-17

Project: Yates AS Fee

Collection Date: 3/30/2022 2:50:00 PM

Lab ID: 2204069-017

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	840	60		mg/Kg	20	4/8/2022 10:53:24 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	270	10		mg/Kg	1	4/8/2022 2:12:20 AM	66654
Motor Oil Range Organics (MRO)	270	50		mg/Kg	1	4/8/2022 2:12:20 AM	66654
Surr: DNOP	104	51.1-141		%Rec	1	4/8/2022 2:12:20 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2022 10:11:00 PM	66615
Surr: BFB	99.2	37.7-212		%Rec	1	4/5/2022 10:11:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 10:11:00 PM	66615
Toluene	ND	0.048		mg/Kg	1	4/5/2022 10:11:00 PM	66615
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2022 10:11:00 PM	66615
Xylenes, Total	ND	0.096		mg/Kg	1	4/5/2022 10:11:00 PM	66615
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	4/5/2022 10:11:00 PM	66615

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

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

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Analytical Report

Lab Order 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-18

Project: Yates AS Fee

Collection Date: 3/30/2022 2:55:00 PM

Lab ID: 2204069-018

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	800	60		mg/Kg	20	4/8/2022 11:05:49 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	89	9.7		mg/Kg	1	4/8/2022 3:00:27 AM	66654
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	4/8/2022 3:00:27 AM	66654
Surr: DNOP	98.3	51.1-141		%Rec	1	4/8/2022 3:00:27 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 10:31:00 PM	66615
Surr: BFB	102	37.7-212		%Rec	1	4/5/2022 10:31:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 10:31:00 PM	66615
Toluene	ND	0.049		mg/Kg	1	4/5/2022 10:31:00 PM	66615
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 10:31:00 PM	66615
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2022 10:31:00 PM	66615
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	4/5/2022 10:31:00 PM	66615

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

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

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Analytical Report

Lab Order 2204069

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-10

Project: Yates AS Fee

Collection Date: 3/30/2022 11:05:00 AM

Lab ID: 2204069-019

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	64	60		mg/Kg	20	4/8/2022 11:18:14 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	150	9.8		mg/Kg	1	4/8/2022 3:48:29 AM	66654
Motor Oil Range Organics (MRO)	350	49		mg/Kg	1	4/8/2022 3:48:29 AM	66654
Surr: DNOP	79.8	51.1-141		%Rec	1	4/8/2022 3:48:29 AM	66654
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2022 10:50:00 PM	66615
Surr: BFB	104	37.7-212		%Rec	1	4/5/2022 10:50:00 PM	66615
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 10:50:00 PM	66615
Toluene	ND	0.048		mg/Kg	1	4/5/2022 10:50:00 PM	66615
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2022 10:50:00 PM	66615
Xylenes, Total	ND	0.097		mg/Kg	1	4/5/2022 10:50:00 PM	66615
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	4/5/2022 10:50:00 PM	66615

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not 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#: 2204069

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: MB-66731	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 66731		RunNo: 87136							
Prep Date: 4/8/2022	Analysis Date: 4/8/2022		SeqNo: 3080929	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66731	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 66731		RunNo: 87136							
Prep Date: 4/8/2022	Analysis Date: 4/8/2022		SeqNo: 3080930	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.2	90	110			

Sample ID: MB-66732	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 66732		RunNo: 87136							
Prep Date: 4/8/2022	Analysis Date: 4/8/2022		SeqNo: 3080959	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66732	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 66732		RunNo: 87136							
Prep Date: 4/8/2022	Analysis Date: 4/8/2022		SeqNo: 3080960	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.1	90	110			

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#: 2204069

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: 2204069-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SWX-7	Batch ID: 66654	RunNo: 87063								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077473 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.3	46.73	0	92.1	36.1	154	4.46	33.9	
Surr: DNOP	3.9		4.673		83.2	51.1	141	0	0	

Sample ID: 2204069-007AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SWX-7	Batch ID: 66654	RunNo: 87063								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077474 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.7	48.36	0	93.1	36.1	154			
Surr: DNOP	4.0		4.836		81.7	51.1	141			

Sample ID: LCS-66640	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66640	RunNo: 87063								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077500 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	68.9	135			
Surr: DNOP	4.7		5.000		94.6	51.1	141			

Sample ID: LCS-66654	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66654	RunNo: 87063								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077501 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		76.8	51.1	141			

Sample ID: MB-66640	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66640	RunNo: 87063								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3077502 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.2	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

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

WO#: 2204069

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: MB-66654	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66654			RunNo: 87063						
Prep Date: 4/5/2022	Analysis Date: 4/6/2022			SeqNo: 3077503	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		78.4	51.1	141			

Sample ID: LCS-66673	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66673			RunNo: 87063						
Prep Date: 4/6/2022	Analysis Date: 4/7/2022			SeqNo: 3077955	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-66673	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66673			RunNo: 87063						
Prep Date: 4/6/2022	Analysis Date: 4/7/2022			SeqNo: 3077956	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		94.0	51.1	141			

Sample ID: LCS-66706	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66706			RunNo: 87134						
Prep Date: 4/7/2022	Analysis Date: 4/8/2022			SeqNo: 3080858	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.4	51.1	141			

Sample ID: MB-66706	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66706			RunNo: 87134						
Prep Date: 4/7/2022	Analysis Date: 4/8/2022			SeqNo: 3080859	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.1	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#: 2204069

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: ics-66615	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 66615				RunNo: 87013					
Prep Date: 4/4/2022	Analysis Date: 4/5/2022				SeqNo: 3074546	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2100		1000		205	37.7	212			

Sample ID: mb-66615	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 66615				RunNo: 87013					
Prep Date: 4/4/2022	Analysis Date: 4/5/2022				SeqNo: 3074547	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.8	37.7	212			

Sample ID: 2204069-006AMS	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: SWX-6	Batch ID: 66615				RunNo: 87013					
Prep Date: 4/4/2022	Analysis Date: 4/5/2022				SeqNo: 3074564	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.74	0	125	70	130			
Surr: BFB	2200		949.7		237	37.7	212			S

Sample ID: 2204069-006AMSD	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: SWX-6	Batch ID: 66615				RunNo: 87013					
Prep Date: 4/4/2022	Analysis Date: 4/5/2022				SeqNo: 3074565	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.74	0	126	70	130	0.796	20	
Surr: BFB	2200		949.7		231	37.7	212	0	0	S

Sample ID: ics-66613	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 66613				RunNo: 87013					
Prep Date: 4/4/2022	Analysis Date: 4/6/2022				SeqNo: 3074581	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	72.3	137			
Surr: BFB	2300		1000		228	37.7	212			S

Sample ID: mb-66613	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 66613				RunNo: 87013					
Prep Date: 4/4/2022	Analysis Date: 4/6/2022				SeqNo: 3074582	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204069

12-Apr-22

Client: GHD Midland

Project: Yates AS Fee

Sample ID: mb-66613	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66613	RunNo: 87013								
Prep Date: 4/4/2022	Analysis Date: 4/6/2022	SeqNo: 3074582		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	37.7	212			

- Qualifiers:
- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2204069

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: lcs-66615	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66615			RunNo: 87013						
Prep Date: 4/4/2022	Analysis Date: 4/5/2022			SeqNo: 3074595			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	80.9	80	120			
Toluene	0.82	0.050	1.000	0	81.7	80	120			
Ethylbenzene	0.82	0.050	1.000	0	81.5	80	120			
Xylenes, Total	2.4	0.10	3.000	0	80.6	80	120			
Surr: 4-Bromofluorobenzene	0.78		1.000		78.4	70	130			

Sample ID: mb-66615	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66615			RunNo: 87013						
Prep Date: 4/4/2022	Analysis Date: 4/5/2022			SeqNo: 3074596			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	0.76		1.000		75.9	70	130			

Sample ID: 2204069-007AMS	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: SWX-7	Batch ID: 66615			RunNo: 87013						
Prep Date: 4/4/2022	Analysis Date: 4/5/2022			SeqNo: 3074614			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9775	0	89.8	68.8	120			
Toluene	0.90	0.049	0.9775	0	92.0	73.6	124			
Ethylbenzene	0.91	0.049	0.9775	0	93.2	72.7	129			
Xylenes, Total	2.7	0.098	2.933	0	92.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.80		0.9775		81.6	70	130			

Sample ID: 2204069-007AMSD	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: SWX-7	Batch ID: 66615			RunNo: 87013						
Prep Date: 4/4/2022	Analysis Date: 4/5/2022			SeqNo: 3074615			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9690	0	86.2	68.8	120	4.89	20	
Toluene	0.86	0.048	0.9690	0	88.7	73.6	124	4.47	20	
Ethylbenzene	0.87	0.048	0.9690	0	90.0	72.7	129	4.40	20	
Xylenes, Total	2.6	0.097	2.907	0	89.5	75.7	126	4.18	20	
Surr: 4-Bromofluorobenzene	0.79		0.9690		81.6	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#: 2204069

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

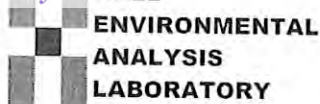
Sample ID: lcs-66613	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 66613			RunNo: 87013						
Prep Date: 4/4/2022	Analysis Date: 4/6/2022			SeqNo: 3074630		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.3	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			

Sample ID: mb-66613	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 66613			RunNo: 87013						
Prep Date: 4/4/2022	Analysis Date: 4/6/2022			SeqNo: 3074631		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.6	70	130			

Qualifiers:

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

B Analyte detected in the associated Method Blank
E 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: 2204069

RcptNo: 1

Received By: Tracy Casarrubias 4/2/2022 10:00:00 AM

Completed By: Tracy Casarrubias 4/2/2022 1:46:58 PM

Reviewed By: SA 4/4/22

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 4/4/22

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	4.7	Good	Yes			
2	3.3	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)

Sampler:

Heath Boyd

On Ice:

☒ Yes☐ No

of Coolers: 2

Cooler Temp (including CF): 4.7 °C = 42 °F

Container Type and #

Preservative Type

HEAL No.

4oz Jar / 1 N/A

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

021

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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: Yates AS Fee

OrderNo.: 2204062

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204062

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-11

Project: Yates AS Fee

Collection Date: 3/31/2022 10:40:00 AM

Lab ID: 2204062-001

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	61		mg/Kg	20	4/5/2022 2:39:53 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2300	97		mg/Kg	10	4/6/2022 1:38:49 PM	66612
Motor Oil Range Organics (MRO)	1000	490		mg/Kg	10	4/6/2022 1:38:49 PM	66612
Surr: DNOP	0	51.1-141	S	%Rec	10	4/6/2022 1:38:49 PM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	43	19		mg/Kg	5	4/4/2022 12:18:00 PM	E86939
Surr: BFB	262	37.7-212	S	%Rec	5	4/4/2022 12:18:00 PM	E86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.094		mg/Kg	5	4/4/2022 12:18:00 PM	F86939
Toluene	ND	0.19		mg/Kg	5	4/4/2022 12:18:00 PM	F86939
Ethylbenzene	0.57	0.19		mg/Kg	5	4/4/2022 12:18:00 PM	F86939
Xylenes, Total	ND	0.38		mg/Kg	5	4/4/2022 12:18:00 PM	F86939
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	5	4/4/2022 12:18:00 PM	F86939

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

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

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Analytical Report

Lab Order 2204062

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-12

Project: Yates AS Fee

Collection Date: 3/31/2022 10:45:00 AM

Lab ID: 2204062-002

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	950	60		mg/Kg	20	4/5/2022 3:17:06 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	120	9.9		mg/Kg	1	4/5/2022 12:21:48 PM	66612
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	4/5/2022 12:21:48 PM	66612
Surr: DNOP	93.0	51.1-141		%Rec	1	4/5/2022 12:21:48 PM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/3/2022 5:50:00 AM	E86939
Surr: BFB	104	37.7-212		%Rec	5	4/3/2022 5:50:00 AM	E86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.088		mg/Kg	5	4/3/2022 5:50:00 AM	F86939
Toluene	ND	0.18		mg/Kg	5	4/3/2022 5:50:00 AM	F86939
Ethylbenzene	ND	0.18		mg/Kg	5	4/3/2022 5:50:00 AM	F86939
Xylenes, Total	ND	0.35		mg/Kg	5	4/3/2022 5:50:00 AM	F86939
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	5	4/3/2022 5:50:00 AM	F86939

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

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

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Analytical Report

Lab Order 2204062

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-13

Project: Yates AS Fee

Collection Date: 3/31/2022 10:50:00 AM

Lab ID: 2204062-003

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1700	60		mg/Kg	20	4/5/2022 3:29:31 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	580	9.9		mg/Kg	1	4/5/2022 10:22:40 AM	66612
Motor Oil Range Organics (MRO)	270	49		mg/Kg	1	4/5/2022 10:22:40 AM	66612
Surr: DNOP	111	51.1-141		%Rec	1	4/5/2022 10:22:40 AM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	20	14		mg/Kg	5	4/4/2022 12:38:00 PM	E86939
Surr: BFB	190	37.7-212		%Rec	5	4/4/2022 12:38:00 PM	E86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.071		mg/Kg	5	4/4/2022 12:38:00 PM	F86939
Toluene	ND	0.14		mg/Kg	5	4/4/2022 12:38:00 PM	F86939
Ethylbenzene	0.28	0.14		mg/Kg	5	4/4/2022 12:38:00 PM	F86939
Xylenes, Total	ND	0.29		mg/Kg	5	4/4/2022 12:38:00 PM	F86939
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	5	4/4/2022 12:38:00 PM	F86939

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

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

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Analytical Report

Lab Order 2204062

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-14

Project: Yates AS Fee

Collection Date: 3/31/2022 10:55:00 AM

Lab ID: 2204062-004

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1600	60		mg/Kg	20	4/5/2022 3:41:55 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3000	190		mg/Kg	20	4/5/2022 1:06:36 PM	66612
Motor Oil Range Organics (MRO)	1100	960		mg/Kg	20	4/5/2022 1:06:36 PM	66612
Surr: DNOP	0	51.1-141	S	%Rec	20	4/5/2022 1:06:36 PM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	160	15		mg/Kg	5	4/4/2022 12:58:00 PM	E86939
Surr: BFB	335	37.7-212	S	%Rec	5	4/4/2022 12:58:00 PM	E86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.074		mg/Kg	5	4/4/2022 12:58:00 PM	F86939
Toluene	ND	0.15		mg/Kg	5	4/4/2022 12:58:00 PM	F86939
Ethylbenzene	3.7	0.15		mg/Kg	5	4/4/2022 12:58:00 PM	F86939
Xylenes, Total	5.0	0.30		mg/Kg	5	4/4/2022 12:58:00 PM	F86939
Surr: 4-Bromofluorobenzene	169	70-130	S	%Rec	5	4/4/2022 12:58:00 PM	F86939

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

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

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Analytical Report

Lab Order 2204062

Date Reported: 4/11/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-15

Project: Yates AS Fee

Collection Date: 3/31/2022 11:00:00 AM

Lab ID: 2204062-005

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1700	60		mg/Kg	20	4/5/2022 3:54:20 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1600	180		mg/Kg	20	4/5/2022 11:36:48 AM	66612
Motor Oil Range Organics (MRO)	1200	910		mg/Kg	20	4/5/2022 11:36:48 AM	66612
Surr: DNOP	0	51.1-141	S	%Rec	20	4/5/2022 11:36:48 AM	66612
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	26	17		mg/Kg	5	4/4/2022 1:37:00 PM	E86939
Surr: BFB	187	37.7-212		%Rec	5	4/4/2022 1:37:00 PM	E86939
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.084		mg/Kg	5	4/4/2022 1:37:00 PM	F86939
Toluene	ND	0.17		mg/Kg	5	4/4/2022 1:37:00 PM	F86939
Ethylbenzene	0.48	0.17		mg/Kg	5	4/4/2022 1:37:00 PM	F86939
Xylenes, Total	ND	0.33		mg/Kg	5	4/4/2022 1:37:00 PM	F86939
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	4/4/2022 1:37:00 PM	F86939

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not 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#: 2204062

11-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

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			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2204062

11-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: MB-66612	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66612		RunNo: 86991							
Prep Date: 4/4/2022	Analysis Date: 4/5/2022		SeqNo: 3074090		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	26		10.00		256	51.1	141			S

Sample ID: LCS-66612	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 66612		RunNo: 86991							
Prep Date: 4/4/2022	Analysis Date: 4/5/2022		SeqNo: 3074094		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	106	68.9	135			
Surr: DNOP	5.3		5.000		106	51.1	141			

Qualifiers:

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

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

WO#: 2204062

11-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: 2.5ug gro lcs 2	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: E86939		RunNo: 86939							
Prep Date:	Analysis Date: 4/3/2022		SeqNo: 3071792		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	111	72.3	137			
Surr: BFB	2200		1000		225	37.7	212			S

Sample ID: mb 2	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: E86939		RunNo: 86939							
Prep Date:	Analysis Date: 4/3/2022		SeqNo: 3071793		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		104	37.7	212			

Sample ID: 2204062-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BHX-11	Batch ID: E86939		RunNo: 86939							
Prep Date:	Analysis Date: 4/3/2022		SeqNo: 3071799		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	2000	380	1888	0	107	70	130			
Surr: BFB	170000		75530		221	37.7	212			S

Sample ID: 2204062-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BHX-11	Batch ID: E86939		RunNo: 86939							
Prep Date:	Analysis Date: 4/3/2022		SeqNo: 3071800		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	2100	380	1888	0	109	70	130	2.00	20	
Surr: BFB	170000		75530		219	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#: 2204062

11-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: F86939			RunNo: 86939						
Prep Date:	Analysis Date: 4/3/2022			SeqNo: 3071834			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	98.3	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

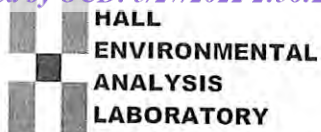
Sample ID: mb 2	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: F86939			RunNo: 86939						
Prep Date:	Analysis Date: 4/3/2022			SeqNo: 3071835			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.7	70	130			

Sample ID: 2204062-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BHX-12	Batch ID: F86939			RunNo: 86939						
Prep Date:	Analysis Date: 4/3/2022			SeqNo: 3071841			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.2	0.088	3.521	0	89.9	68.8	120			
Toluene	3.3	0.18	3.521	0	92.4	73.6	124			
Ethylbenzene	3.3	0.18	3.521	0	93.3	72.7	129			
Xylenes, Total	9.8	0.35	10.56	0	92.9	75.7	126			
Surr: 4-Bromofluorobenzene	3.0		3.521		84.2	70	130			

Sample ID: 2204062-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: BHX-12	Batch ID: F86939			RunNo: 86939						
Prep Date:	Analysis Date: 4/3/2022			SeqNo: 3071842			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.1	0.088	3.521	0	86.7	68.8	120	3.65	20	
Toluene	3.1	0.18	3.521	0	88.6	73.6	124	4.16	20	
Ethylbenzene	3.2	0.18	3.521	0	90.4	72.7	129	3.08	20	
Xylenes, Total	9.5	0.35	10.56	0	90.1	75.7	126	3.05	20	
Surr: 4-Bromofluorobenzene	2.8		3.521		79.3	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: 2204062

RcptNo: 1

Received By: Tracy Casarrubias

4/2/2022 10:00:00 AM

Completed By: Tracy Casarrubias

4/2/2022 11:23:41 AM

Reviewed By: *TC 04/02/2022*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: TMC 4/2/22*

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	4.7	Good	Yes			
2	3.3	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: GHD		☐ Standard	☒ Rush 24 hr
Mailing Address:		Project Name: Yates AS Fee	
2135 S. Loop 250 W. Midland, TX 79703		Project #: 11228701	
Phone #: (432) 686-0086		Project Manager: Becky Haskell	
email or Fax#: Becky.Haskell@ghd.com		Tom Larson	
QA/QC Package:		Sampler: Heath Boyd	
☐ Standard ☐ Level 4 (Full Validation)		On Ice: ☒ Yes ☐ No	
Accreditation: ☐ Az Compliance		# of Cores: 3	
☐ NELAC ☐ Other			
☐ EDD (Type)			

Turn-Around Time:	☐ Standard	☒ Rush	24 hr
Project Name:	Yates AS Fee		
Project #:	11228701		
Project Manager:	Becky Haskell		
	Tom Larson		
Sampler:	Heath Boyd		
On Ice:	☒ Yes ☐ No		
of Cores:			

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)	

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility.



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: Yates AS Fee

OrderNo.: 2204068

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204068

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-19

Project: Yates AS Fee

Collection Date: 3/31/2022 11:40:00 AM

Lab ID: 2204068-001

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	900	60		mg/Kg	20	4/8/2022 4:16:13 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	570	9.8		mg/Kg	1	4/7/2022 5:36:24 AM	66640
Motor Oil Range Organics (MRO)	430	49		mg/Kg	1	4/7/2022 5:36:24 AM	66640
Surr: DNOP	105	51.1-141		%Rec	1	4/7/2022 5:36:24 AM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/6/2022 1:53:11 AM	66613
Surr: BFB	114	37.7-212		%Rec	5	4/6/2022 1:53:11 AM	66613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	4/6/2022 1:53:11 AM	66613
Toluene	ND	0.25		mg/Kg	5	4/6/2022 1:53:11 AM	66613
Ethylbenzene	ND	0.25		mg/Kg	5	4/6/2022 1:53:11 AM	66613
Xylenes, Total	ND	0.50		mg/Kg	5	4/6/2022 1:53:11 AM	66613
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	4/6/2022 1:53:11 AM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204068

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-20

Project: Yates AS Fee

Collection Date: 3/31/2022 11:45:00 AM

Lab ID: 2204068-002

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	550	61		mg/Kg	20	4/8/2022 4:28:38 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	210	9.3		mg/Kg	1	4/7/2022 10:34:58 PM	66640
Motor Oil Range Organics (MRO)	380	46		mg/Kg	1	4/7/2022 10:34:58 PM	66640
Surr: DNOP	111	51.1-141		%Rec	1	4/7/2022 10:34:58 PM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2022 2:40:30 AM	66613
Surr: BFB	98.7	37.7-212		%Rec	1	4/6/2022 2:40:30 AM	66613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/6/2022 2:40:30 AM	66613
Toluene	ND	0.048		mg/Kg	1	4/6/2022 2:40:30 AM	66613
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2022 2:40:30 AM	66613
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2022 2:40:30 AM	66613
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	4/6/2022 2:40:30 AM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204068

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-21

Project: Yates AS Fee

Collection Date: 3/31/2022 11:50:00 AM

Lab ID: 2204068-003

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1000	60		mg/Kg	20	4/8/2022 4:41:03 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	83	9.7		mg/Kg	1	4/7/2022 6:48:08 AM	66640
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	4/7/2022 6:48:08 AM	66640
Surr: DNOP	101	51.1-141		%Rec	1	4/7/2022 6:48:08 AM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2022 3:04:12 AM	66613
Surr: BFB	96.8	37.7-212		%Rec	1	4/6/2022 3:04:12 AM	66613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/6/2022 3:04:12 AM	66613
Toluene	ND	0.049		mg/Kg	1	4/6/2022 3:04:12 AM	66613
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2022 3:04:12 AM	66613
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2022 3:04:12 AM	66613
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	4/6/2022 3:04:12 AM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204068

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-22

Project: Yates AS Fee

Collection Date: 3/31/2022 11:55:00 AM

Lab ID: 2204068-004

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1600	60		mg/Kg	20	4/8/2022 4:53:27 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	51	10		mg/Kg	1	4/7/2022 7:59:46 AM	66640
Motor Oil Range Organics (MRO)	82	50		mg/Kg	1	4/7/2022 7:59:46 AM	66640
Surr: DNOP	102	51.1-141		%Rec	1	4/7/2022 7:59:46 AM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2022 3:27:54 AM	66613
Surr: BFB	96.7	37.7-212		%Rec	1	4/6/2022 3:27:54 AM	66613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/6/2022 3:27:54 AM	66613
Toluene	ND	0.050		mg/Kg	1	4/6/2022 3:27:54 AM	66613
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2022 3:27:54 AM	66613
Xylenes, Total	ND	0.099		mg/Kg	1	4/6/2022 3:27:54 AM	66613
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	4/6/2022 3:27:54 AM	66613

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

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

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Analytical Report

Lab Order 2204068

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-23

Project: Yates AS Fee

Collection Date: 3/31/2022 12:00:00 PM

Lab ID: 2204068-005

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	4/8/2022 5:05:51 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	210	9.1		mg/Kg	1	4/7/2022 8:49:11 AM	66640
Motor Oil Range Organics (MRO)	290	46		mg/Kg	1	4/7/2022 8:49:11 AM	66640
Surr: DNOP	97.8	51.1-141		%Rec	1	4/7/2022 8:49:11 AM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2022 3:51:35 AM	66613
Surr: BFB	96.2	37.7-212		%Rec	1	4/6/2022 3:51:35 AM	66613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/6/2022 3:51:35 AM	66613
Toluene	ND	0.050		mg/Kg	1	4/6/2022 3:51:35 AM	66613
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2022 3:51:35 AM	66613
Xylenes, Total	ND	0.099		mg/Kg	1	4/6/2022 3:51:35 AM	66613
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	4/6/2022 3:51:35 AM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204068

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-24

Project: Yates AS Fee

Collection Date: 3/31/2022 12:05:00 PM

Lab ID: 2204068-006

Matrix: SOIL

Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	4/8/2022 5:18:15 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	2400	92		mg/Kg	10	4/8/2022 3:19:38 PM	66640
Motor Oil Range Organics (MRO)	1200	460		mg/Kg	10	4/8/2022 3:19:38 PM	66640
Surr: DNOP	0	51.1-141	S	%Rec	10	4/8/2022 3:19:38 PM	66640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	91	25		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Surr: BFB	281	37.7-212	S	%Rec	5	4/6/2022 10:42:00 AM	66613
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Toluene	ND	0.25		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Ethylbenzene	1.6	0.25		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Xylenes, Total	1.6	0.50		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	5	4/6/2022 10:42:00 AM	66613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 6 of 10

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

WO#: 2204068

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: MB-66731	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66731	RunNo: 87136								
Prep Date: 4/8/2022	Analysis Date: 4/8/2022	SeqNo: 3080929	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66731	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66731	RunNo: 87136								
Prep Date: 4/8/2022	Analysis Date: 4/8/2022	SeqNo: 3080930	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.2	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#: 2204068

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: LCS-66640	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 66640				RunNo: 87063					
Prep Date: 4/5/2022	Analysis Date: 4/6/2022				SeqNo: 3077500	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	68.9	135			
Surr: DNOP	4.7		5.000		94.6	51.1	141			

Sample ID: MB-66640	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 66640				RunNo: 87063					
Prep Date: 4/5/2022	Analysis Date: 4/6/2022				SeqNo: 3077502	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.2	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#: 2204068

12-Apr-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: lcs-66613	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66613		RunNo: 87013							
Prep Date: 4/4/2022	Analysis Date: 4/6/2022		SeqNo: 3074581		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	72.3	137			
Surr: BFB	2300		1000		228	37.7	212			S

Sample ID: mb-66613	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66613		RunNo: 87013							
Prep Date: 4/4/2022	Analysis Date: 4/6/2022		SeqNo: 3074582		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	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#: 2204068

12-Apr-22

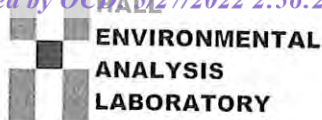
Client: GHD Midland**Project:** Yates AS Fee

Sample ID: lcs-66613	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 66613				RunNo: 87013					
Prep Date: 4/4/2022	Analysis Date: 4/6/2022				SeqNo: 3074630	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.3	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			

Sample ID: mb-66613	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 66613				RunNo: 87013					
Prep Date: 4/4/2022	Analysis Date: 4/6/2022				SeqNo: 3074631	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.6	70	130			

Qualifiers:

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



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: 2204068

RcptNo: 1

Received By: Tracy Casarrubias 4/2/2022 10:00:00 AM

Completed By: Tracy Casarrubias 4/2/2022 1:40:57 PM

Reviewed By: *See 4/4/22*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: KPC 4/4/22*

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	4.7	Good	Yes			
2	3.3	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 5 Day

Project Name:

YATES AS FEE

Project #:

11228401

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Heath Boyd

On Ice:

☒ Yes☐ No

of Coolers: 2

Cooler Temp (including CF): 4.2 - 4.7

Container Type and #

Preservative

HEAL No.

2204008

42.5 / 1

N/A

001

002

003

004

005

006

007

008

009

010

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013

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

May 04, 2022

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

RE: Yates AS Fee

OrderNo.: 2204B36

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204B36

Date Reported: 5/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-17A

Project: Yates AS Fee

Collection Date: 4/25/2022 1:30:00 PM

Lab ID: 2204B36-001

Matrix: SOIL

Received Date: 4/27/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	650	60		mg/Kg	20	4/27/2022 11:58:19 PM	67123
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	960	97		mg/Kg	10	4/29/2022 9:11:30 AM	67094
Motor Oil Range Organics (MRO)	1300	490		mg/Kg	10	4/29/2022 9:11:30 AM	67094
Surr: DNOP	0	51.1-141	S	%Rec	10	4/29/2022 9:11:30 AM	67094
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/27/2022 3:41:53 PM	G87547
Surr: BFB	97.0	37.7-212		%Rec	5	4/27/2022 3:41:53 PM	G87547
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.089		mg/Kg	5	4/27/2022 3:41:53 PM	R87547
Toluene	ND	0.18		mg/Kg	5	4/27/2022 3:41:53 PM	R87547
Ethylbenzene	ND	0.18		mg/Kg	5	4/27/2022 3:41:53 PM	R87547
Xylenes, Total	ND	0.36		mg/Kg	5	4/27/2022 3:41:53 PM	R87547
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	5	4/27/2022 3:41:53 PM	R87547

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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#: 2204B36
04-May-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: MB-67123	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 67123	RunNo: 87579
Prep Date: 4/27/2022	Analysis Date: 4/27/2022	SeqNo: 3099437 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-67123	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 67123	RunNo: 87579
Prep Date: 4/27/2022	Analysis Date: 4/27/2022	SeqNo: 3099438 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.8 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#: 2204B36

04-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: LCS-67094	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 67094				RunNo: 87551					
Prep Date: 4/27/2022	Analysis Date: 4/27/2022				SeqNo: 3098117	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	101	68.9	135			
Surr: DNOP	3.8		5.000		76.6	51.1	141			

Sample ID: MB-67094	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 67094				RunNo: 87551					
Prep Date: 4/27/2022	Analysis Date: 4/27/2022				SeqNo: 3098118	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	8.2		10.00		82.3	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#: 2204B36

04-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G87547			RunNo: 87547						
Prep Date:	Analysis Date: 4/27/2022			SeqNo: 3098795		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	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: G87547			RunNo: 87547						
Prep Date:	Analysis Date: 4/27/2022			SeqNo: 3098796		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	84.9	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: mb-67073	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 67073			RunNo: 87547						
Prep Date: 4/26/2022	Analysis Date: 4/27/2022			SeqNo: 3098815		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	37.7	212			

Sample ID: lcs-67073	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 67073			RunNo: 87547						
Prep Date: 4/26/2022	Analysis Date: 4/27/2022			SeqNo: 3098816		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		216	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#: 2204B36

04-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: R87547			RunNo: 87547						
Prep Date:	Analysis Date: 4/27/2022			SeqNo: 3098843		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

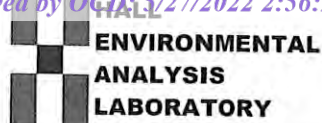
Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: R87547			RunNo: 87547						
Prep Date:	Analysis Date: 4/27/2022			SeqNo: 3098844		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	80	120			
Toluene	0.89	0.050	1.000	0	89.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-67073	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 67073			RunNo: 87547						
Prep Date: 4/26/2022	Analysis Date: 4/27/2022			SeqNo: 3098863		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	70	130			

Sample ID: LCS-67073	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 67073			RunNo: 87547						
Prep Date: 4/26/2022	Analysis Date: 4/27/2022			SeqNo: 3098864		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			

Qualifiers:

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



Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2204B36

RcptNo: 1

Received By: Juan Rojas

4/27/2022 7:10:00 AM

Juan Rojas

Completed By: Tracy Casarrubias

4/27/2022 8:08:51 AM

Reviewed By: *J* 4-27-22Chain 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: *JA 4/27/22*Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Yes			
2	5.2	Good	Yes			



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

May 06, 2022

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

RE: Yates AS Fee

OrderNo.: 2204C45

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/28/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204C45

Date Reported: 5/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-10A

Project: Yates AS Fee

Collection Date: 4/26/2022 1:00:00 PM

Lab ID: 2204C45-001

Matrix: SOIL

Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	86	60		mg/Kg	20	4/28/2022 11:05:21 PM	67152
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	170	9.5		mg/Kg	1	4/29/2022 11:53:10 AM	67140
Motor Oil Range Organics (MRO)	360	47		mg/Kg	1	4/29/2022 11:53:10 AM	67140
Surr: DNOP	73.6	51.1-141		%Rec	1	4/29/2022 11:53:10 AM	67140
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	4/28/2022 5:17:33 PM	G87603
Surr: BFB	101	37.7-212		%Rec	1	4/28/2022 5:17:33 PM	G87603
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	4/28/2022 5:17:33 PM	B87603
Toluene	ND	0.041		mg/Kg	1	4/28/2022 5:17:33 PM	B87603
Ethylbenzene	ND	0.041		mg/Kg	1	4/28/2022 5:17:33 PM	B87603
Xylenes, Total	ND	0.083		mg/Kg	1	4/28/2022 5:17:33 PM	B87603
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	4/28/2022 5:17:33 PM	B87603

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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#: 2204C45

06-May-22

Client: GHD Midland

Project: Yates AS Fee

Sample ID: MB-67152	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 67152		RunNo: 87612							
Prep Date: 4/28/2022	Analysis Date: 4/28/2022		SeqNo: 3101219		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67152	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 67152		RunNo: 87612							
Prep Date: 4/28/2022	Analysis Date: 4/28/2022		SeqNo: 3101220		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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2204C45

06-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: LCS-67140	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 67140			RunNo: 87613						
Prep Date: 4/28/2022	Analysis Date: 4/28/2022			SeqNo: 3101296		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	84.0	68.9	135			
Surr: DNOP	4.2		5.000		84.7	51.1	141			

Sample ID: MB-67140	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 67140			RunNo: 87613						
Prep Date: 4/28/2022	Analysis Date: 4/28/2022			SeqNo: 3101300		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.8	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		

Page 3 of 5

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

WO#: 2204C45

06-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G87603		RunNo: 87603							
Prep Date:	Analysis Date: 4/29/2022		SeqNo: 3100391		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		98.7	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G87603		RunNo: 87603							
Prep Date:	Analysis Date: 4/28/2022		SeqNo: 3100392		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		204	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#: 2204C45

06-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B87603			RunNo: 87603						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3100434		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: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B87603			RunNo: 87603						
Prep Date:	Analysis Date: 4/28/2022			SeqNo: 3100435		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

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



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: 2204C45

RcptNo: 1

Received By: Joseph Alderette 4/28/2022 2:45:00 PM

Completed By: Tracy Casarrubias 4/28/2022 2:49:58 PM

Reviewed By: SCA 4/28/22

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: DAD 4/28/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	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#: 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:

Yates AS Fee

Project #:

11228401

Project Manager:

Becky Haslell @GHD.com,

"Tom"

Sampler: Heath. Boyd @GHD.COM

On Ice:

☒ Yes☐ No

of Coolers:

1

Cooler Temp (including CF): 24-05-24 (°C)

Container Type and #

Preservative Type

HEAL No.

2204C45

46250/1

N/A

201

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

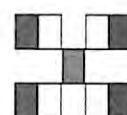
8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride 300 M

Analysis Request


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date: 4/26/22 Time: 1800

Relinquished by:

Received by:

Via:

Date

Time

Remarks:

Date: 4/26/22 Time: 1800

Relinquished by:

Received by:

Via:

Date

Time

Remarks:

Date: 4/26/22 Time: 1800

Relinquished by:

Received by:

Via:

Date

Time

Remarks:

20200511
100



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

May 09, 2022

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

RE: Yates AS Fee

OrderNo.: 2204C79

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/29/2022 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 2204C79

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-11

Project: Yates AS Fee

Collection Date: 4/27/2022 12:00:00 PM

Lab ID: 2204C79-001

Matrix: SOIL

Received Date: 4/29/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1400	60		mg/Kg	20	4/29/2022 5:30:09 PM	67170
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1000	44		mg/Kg	5	4/29/2022 11:36:59 AM	67158
Motor Oil Range Organics (MRO)	490	220		mg/Kg	5	4/29/2022 11:36:59 AM	67158
Surr: DNOP	80.8	51.1-141		%Rec	5	4/29/2022 11:36:59 AM	67158
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/29/2022 9:27:06 AM	G87621
Surr: BFB	129	37.7-212		%Rec	5	4/29/2022 9:27:06 AM	G87621
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.091		mg/Kg	5	4/29/2022 9:27:06 AM	B87621
Toluene	ND	0.18		mg/Kg	5	4/29/2022 9:27:06 AM	B87621
Ethylbenzene	ND	0.18		mg/Kg	5	4/29/2022 9:27:06 AM	B87621
Xylenes, Total	ND	0.37		mg/Kg	5	4/29/2022 9:27:06 AM	B87621
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	5	4/29/2022 9:27:06 AM	B87621

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 7

Analytical Report

Lab Order 2204C79

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-14

Project: Yates AS Fee

Collection Date: 4/27/2022 12:10:00 PM

Lab ID: 2204C79-002

Matrix: SOIL

Received Date: 4/29/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1600	60		mg/Kg	20	4/29/2022 5:42:29 PM	67170
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	2700	97		mg/Kg	10	4/29/2022 10:36:36 AM	67158
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	4/29/2022 10:36:36 AM	67158
Surr: DNOP	0	51.1-141	S	%Rec	10	4/29/2022 10:36:36 AM	67158
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	28	20		mg/Kg	5	4/29/2022 9:50:45 AM	G87621
Surr: BFB	177	37.7-212		%Rec	5	4/29/2022 9:50:45 AM	G87621
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.10		mg/Kg	5	4/29/2022 9:50:45 AM	B87621
Toluene	ND	0.20		mg/Kg	5	4/29/2022 9:50:45 AM	B87621
Ethylbenzene	0.47	0.20		mg/Kg	5	4/29/2022 9:50:45 AM	B87621
Xylenes, Total	ND	0.40		mg/Kg	5	4/29/2022 9:50:45 AM	B87621
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	4/29/2022 9:50:45 AM	B87621

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 7

Analytical Report

Lab Order 2204C79

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BHX-15

Project: Yates AS Fee

Collection Date: 4/27/2022 12:20:00 PM

Lab ID: 2204C79-003

Matrix: SOIL

Received Date: 4/29/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2000	150		mg/Kg	50	5/2/2022 7:22:51 PM	67170
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	410	8.9		mg/Kg	1	4/29/2022 11:08:57 AM	67158
Motor Oil Range Organics (MRO)	200	45		mg/Kg	1	4/29/2022 11:08:57 AM	67158
Surr: DNOP	95.1	51.1-141		%Rec	1	4/29/2022 11:08:57 AM	67158
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	4/29/2022 10:14:23 AM	G87621
Surr: BFB	100	37.7-212		%Rec	5	4/29/2022 10:14:23 AM	G87621
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.093		mg/Kg	5	4/29/2022 10:14:23 AM	B87621
Toluene	ND	0.19		mg/Kg	5	4/29/2022 10:14:23 AM	B87621
Ethylbenzene	ND	0.19		mg/Kg	5	4/29/2022 10:14:23 AM	B87621
Xylenes, Total	ND	0.37		mg/Kg	5	4/29/2022 10:14:23 AM	B87621
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	5	4/29/2022 10:14:23 AM	B87621

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204C79

09-May-22

Client: GHD Midland

Project: Yates AS Fee

Sample ID: MB-67170		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 67170		RunNo: 87647						
Prep Date: 4/29/2022		Analysis Date: 4/29/2022		SeqNo: 3102914		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67170		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 67170		RunNo: 87647						
Prep Date: 4/29/2022		Analysis Date: 4/29/2022		SeqNo: 3102915		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

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

WO#: 2204C79

09-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: MB-67158	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67158	RunNo: 87609								
Prep Date: 4/29/2022	Analysis Date: 4/29/2022	SeqNo: 3102248 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	8.7		10.00		87.0	51.1	141			

Sample ID: LCS-67158	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67158	RunNo: 87609								
Prep Date: 4/29/2022	Analysis Date: 4/29/2022	SeqNo: 3102249 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	95.6	68.9	135			
Surr: DNOP	4.1		5.000		81.8	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#: 2204C79

09-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G87621			RunNo: 87621						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3102438		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		100	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: G87621			RunNo: 87621						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3102439		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	2100		1000		208	37.7	212			

Sample ID: 2204c79-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BHX-11	Batch ID: G87621			RunNo: 87621						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3102444		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	86	18	91.37	16.48	76.4	70	130			
Surr: BFB	7400		3655		203	37.7	212			

Sample ID: 2204c79-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BHX-11	Batch ID: G87621			RunNo: 87621						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3102445		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	110	18	91.37	16.48	104	70	130	25.4	20	R
Surr: BFB	8300		3655		227	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#: 2204C79

09-May-22

Client: GHD Midland**Project:** Yates AS Fee

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B87621			RunNo: 87621						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3102497		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		97.7	70	130			

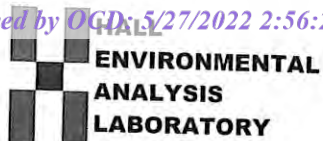
Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B87621			RunNo: 87621						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3102498		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: 2204c79-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BHX-14	Batch ID: B87621			RunNo: 87621						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3102503		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.0	0.10	3.990	0	99.8	68.8	120			
Toluene	4.2	0.20	3.990	0	106	73.6	124			
Ethylbenzene	4.7	0.20	3.990	0.4665	105	72.7	129			
Xylenes, Total	13	0.40	11.97	0.2354	104	75.7	126			
Surr: 4-Bromofluorobenzene	4.3		3.990		107	70	130			

Sample ID: 2204c79-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: BHX-14	Batch ID: B87621			RunNo: 87621						
Prep Date:	Analysis Date: 4/29/2022			SeqNo: 3102504		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.5	0.10	3.990	0	112	68.8	120	11.5	20	
Toluene	4.8	0.20	3.990	0	120	73.6	124	12.8	20	
Ethylbenzene	5.4	0.20	3.990	0.4665	122	72.7	129	13.5	20	
Xylenes, Total	15	0.40	11.97	0.2354	119	75.7	126	13.6	20	
Surr: 4-Bromofluorobenzene	4.4		3.990		111	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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: 2204C79

RcptNo: 1

Received By: Juan Rojas

4/29/2022 7:10:00 AM

Juan Rojas

Completed By: Tracy Casarrubias

4/29/2022 7:46:48 AM

Reviewed By: *J 4-29-22*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: *sn 4/29/22*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	1.9	Good	Yes			



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

May 09, 2022

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

RE: Yates As Fee

OrderNo.: 2204D43

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/30/2022 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204D43

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-72A

Project: Yates As Fee

Collection Date: 4/28/2022 12:00:00 PM

Lab ID: 2204D43-001

Matrix: SOIL

Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	2200	60		mg/Kg	20	5/3/2022 11:51:22 AM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	270	9.5		mg/Kg	1	5/3/2022 2:42:02 AM	67195
Motor Oil Range Organics (MRO)	200	47		mg/Kg	1	5/3/2022 2:42:02 AM	67195
Surr: DNOP	84.0	51.1-141		%Rec	1	5/3/2022 2:42:02 AM	67195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/30/2022 3:50:00 PM	A87642
Surr: BFB	99.7	37.7-212		%Rec	1	4/30/2022 3:50:00 PM	A87642
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.019		mg/Kg	1	4/30/2022 3:50:00 PM	B87642
Toluene	ND	0.039		mg/Kg	1	4/30/2022 3:50:00 PM	B87642
Ethylbenzene	ND	0.039		mg/Kg	1	4/30/2022 3:50:00 PM	B87642
Xylenes, Total	ND	0.077		mg/Kg	1	4/30/2022 3:50:00 PM	B87642
Surr: 4-Bromofluorobenzene	79.5	70-130		%Rec	1	4/30/2022 3:50:00 PM	B87642

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 7

Analytical Report

Lab Order 2204D43

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-95A

Project: Yates As Fee

Collection Date: 4/28/2022 12:10:00 PM

Lab ID: 2204D43-002

Matrix: SOIL

Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1600	60		mg/Kg	20	5/3/2022 12:03:42 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	15	8.8		mg/Kg	1	5/3/2022 3:06:21 AM	67195
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/3/2022 3:06:21 AM	67195
Surr: DNOP	85.7	51.1-141		%Rec	1	5/3/2022 3:06:21 AM	67195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/30/2022 4:10:00 PM	A87642
Surr: BFB	104	37.7-212		%Rec	1	4/30/2022 4:10:00 PM	A87642
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.019		mg/Kg	1	4/30/2022 4:10:00 PM	B87642
Toluene	ND	0.037		mg/Kg	1	4/30/2022 4:10:00 PM	B87642
Ethylbenzene	ND	0.037		mg/Kg	1	4/30/2022 4:10:00 PM	B87642
Xylenes, Total	ND	0.075		mg/Kg	1	4/30/2022 4:10:00 PM	B87642
Surr: 4-Bromofluorobenzene	81.1	70-130		%Rec	1	4/30/2022 4:10:00 PM	B87642

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 7

Analytical Report

Lab Order 2204D43

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SWX-24A

Project: Yates As Fee

Collection Date: 4/28/2022 12:20:00 PM

Lab ID: 2204D43-003

Matrix: SOIL

Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1000	59		mg/Kg	20	5/3/2022 12:16:02 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/3/2022 3:30:40 AM	67195
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/3/2022 3:30:40 AM	67195
Surr: DNOP	76.5	51.1-141		%Rec	1	5/3/2022 3:30:40 AM	67195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/30/2022 4:29:00 PM	A87642
Surr: BFB	99.3	37.7-212		%Rec	1	4/30/2022 4:29:00 PM	A87642
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.019		mg/Kg	1	4/30/2022 4:29:00 PM	B87642
Toluene	ND	0.038		mg/Kg	1	4/30/2022 4:29:00 PM	B87642
Ethylbenzene	ND	0.038		mg/Kg	1	4/30/2022 4:29:00 PM	B87642
Xylenes, Total	ND	0.076		mg/Kg	1	4/30/2022 4:29:00 PM	B87642
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	4/30/2022 4:29:00 PM	B87642

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not 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#: 2204D43

09-May-22

Client: GHD Midland

Project: Yates As Fee

Sample ID: MB-67219	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 67219	RunNo: 87695
Prep Date: 5/3/2022	Analysis Date: 5/3/2022	SeqNo: 3106788 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-67219	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 67219	RunNo: 87695
Prep Date: 5/3/2022	Analysis Date: 5/3/2022	SeqNo: 3106789 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.4 90 110

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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 4 of 7

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

WO#: 2204D43

09-May-22

Client: GHD Midland**Project:** Yates As Fee

Sample ID: MB-67195	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67195	RunNo: 87671								
Prep Date: 5/2/2022	Analysis Date: 5/2/2022	SeqNo: 3104298	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	5.2		10.00		52.4	51.1	141			

Sample ID: LCS-67195	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67195	RunNo: 87694								
Prep Date: 5/2/2022	Analysis Date: 5/3/2022	SeqNo: 3105598	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	101	68.9	135			
Surr: DNOP	3.6		5.000		72.7	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#: 2204D43

09-May-22

Client: GHD Midland**Project:** Yates As Fee

Sample ID: 2.5ug GRO lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: A87642			RunNo: 87642						
Prep Date:	Analysis Date: 4/30/2022			SeqNo: 3102627		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		212	37.7	212			S

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: A87642			RunNo: 87642						
Prep Date:	Analysis Date: 4/30/2022			SeqNo: 3102628		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			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2204D43

09-May-22

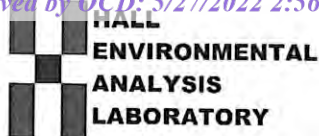
Client: GHD Midland**Project:** Yates As Fee

Sample ID: 100ng BTEX lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B87642			RunNo: 87642						
Prep Date:	Analysis Date: 4/30/2022			SeqNo: 3102639		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B87642			RunNo: 87642						
Prep Date:	Analysis Date: 4/30/2022			SeqNo: 3102640		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2204D43

RcptNo: 1

Received By: Juan Rojas

4/30/2022 8:30:00 AM

Juan Rojas

Completed By: Juan Rojas

4/30/2022 8:55:27 AM

*Juan Rojas*Reviewed By: *TS 04/30/2022***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: *TS 4/30/22*

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	5.5	Good				



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

May 09, 2022

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

RE: Yates As Fee

OrderNo.: 2204D42

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/30/2022 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".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2204D42

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-113A

Project: Yates As Fee

Collection Date: 4/29/2022 1:00:00 PM

Lab ID: 2204D42-001

Matrix: SOIL

Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	780	60		mg/Kg	20	5/3/2022 12:28:23 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	210	8.6		mg/Kg	1	5/3/2022 1:04:45 AM	67195
Motor Oil Range Organics (MRO)	160	43		mg/Kg	1	5/3/2022 1:04:45 AM	67195
Surr: DNOP	75.9	51.1-141		%Rec	1	5/3/2022 1:04:45 AM	67195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	4/30/2022 1:51:00 PM	A87642
Surr: BFB	98.4	37.7-212		%Rec	1	4/30/2022 1:51:00 PM	A87642
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.018		mg/Kg	1	4/30/2022 1:51:00 PM	B87642
Toluene	ND	0.036		mg/Kg	1	4/30/2022 1:51:00 PM	B87642
Ethylbenzene	ND	0.036		mg/Kg	1	4/30/2022 1:51:00 PM	B87642
Xylenes, Total	ND	0.072		mg/Kg	1	4/30/2022 1:51:00 PM	B87642
Surr: 4-Bromofluorobenzene	79.8	70-130		%Rec	1	4/30/2022 1:51:00 PM	B87642

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2204D42

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-121A

Project: Yates As Fee

Collection Date: 4/29/2022 1:10:00 PM

Lab ID: 2204D42-002

Matrix: SOIL

Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	5400	300		mg/Kg	100	5/4/2022 5:12:42 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	540	8.7		mg/Kg	1	5/3/2022 1:28:59 AM	67195
Motor Oil Range Organics (MRO)	320	43		mg/Kg	1	5/3/2022 1:28:59 AM	67195
Surr: DNOP	95.8	51.1-141		%Rec	1	5/3/2022 1:28:59 AM	67195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/30/2022 2:51:00 PM	A87642
Surr: BFB	127	37.7-212		%Rec	1	4/30/2022 2:51:00 PM	A87642
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.018		mg/Kg	1	4/30/2022 2:51:00 PM	B87642
Toluene	ND	0.037		mg/Kg	1	4/30/2022 2:51:00 PM	B87642
Ethylbenzene	ND	0.037		mg/Kg	1	4/30/2022 2:51:00 PM	B87642
Xylenes, Total	ND	0.073		mg/Kg	1	4/30/2022 2:51:00 PM	B87642
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/30/2022 2:51:00 PM	B87642

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

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

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Analytical Report

Lab Order 2204D42

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-123A

Project: Yates As Fee

Collection Date: 4/29/2022 1:20:00 PM

Lab ID: 2204D42-003

Matrix: SOIL

Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3300	150		mg/Kg	50	5/4/2022 5:25:06 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	700	8.8		mg/Kg	1	5/3/2022 1:53:22 AM	67195
Motor Oil Range Organics (MRO)	420	44		mg/Kg	1	5/3/2022 1:53:22 AM	67195
Surr: DNOP	102	51.1-141		%Rec	1	5/3/2022 1:53:22 AM	67195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/30/2022 3:11:00 PM	A87642
Surr: BFB	142	37.7-212		%Rec	1	4/30/2022 3:11:00 PM	A87642
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.020		mg/Kg	1	4/30/2022 3:11:00 PM	B87642
Toluene	ND	0.040		mg/Kg	1	4/30/2022 3:11:00 PM	B87642
Ethylbenzene	ND	0.040		mg/Kg	1	4/30/2022 3:11:00 PM	B87642
Xylenes, Total	ND	0.080		mg/Kg	1	4/30/2022 3:11:00 PM	B87642
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	4/30/2022 3:11:00 PM	B87642

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

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

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Analytical Report

Lab Order 2204D42

Date Reported: 5/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-17B

Project: Yates As Fee

Collection Date: 4/29/2022 1:30:00 PM

Lab ID: 2204D42-004

Matrix: SOIL

Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	5/3/2022 1:05:25 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/3/2022 2:17:37 AM	67195
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/3/2022 2:17:37 AM	67195
Surr: DNOP	61.2	51.1-141		%Rec	1	5/3/2022 2:17:37 AM	67195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	4/30/2022 3:30:00 PM	A87642
Surr: BFB	98.3	37.7-212		%Rec	1	4/30/2022 3:30:00 PM	A87642
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.022		mg/Kg	1	4/30/2022 3:30:00 PM	B87642
Toluene	ND	0.045		mg/Kg	1	4/30/2022 3:30:00 PM	B87642
Ethylbenzene	ND	0.045		mg/Kg	1	4/30/2022 3:30:00 PM	B87642
Xylenes, Total	ND	0.089		mg/Kg	1	4/30/2022 3:30:00 PM	B87642
Surr: 4-Bromofluorobenzene	79.8	70-130		%Rec	1	4/30/2022 3:30:00 PM	B87642

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not 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#: 2204D42

09-May-22

Client: GHD Midland**Project:** Yates As Fee

Sample ID: MB-67219	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67219	RunNo: 87695								
Prep Date: 5/3/2022	Analysis Date: 5/3/2022	SeqNo: 3106788	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67219	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67219	RunNo: 87695								
Prep Date: 5/3/2022	Analysis Date: 5/3/2022	SeqNo: 3106789	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	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#: 2204D42

09-May-22

Client: GHD Midland**Project:** Yates As Fee

Sample ID: MB-67195	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67195	RunNo: 87671								
Prep Date: 5/2/2022	Analysis Date: 5/2/2022	SeqNo: 3104298	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	5.2		10.00		52.4	51.1	141			

Sample ID: LCS-67195	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67195	RunNo: 87694								
Prep Date: 5/2/2022	Analysis Date: 5/3/2022	SeqNo: 3105598	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	101	68.9	135			
Surr: DNOP	3.6		5.000		72.7	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#: 2204D42

09-May-22

Client: GHD Midland**Project:** Yates As Fee

Sample ID: 2.5ug GRO lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: A87642		RunNo: 87642							
Prep Date:	Analysis Date: 4/30/2022		SeqNo: 3102627		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		212	37.7	212			S

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: A87642		RunNo: 87642							
Prep Date:	Analysis Date: 4/30/2022		SeqNo: 3102628		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: 2204D42-002ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-121A	Batch ID: A87642		RunNo: 87642							
Prep Date:	Analysis Date: 4/30/2022		SeqNo: 3102637		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.7	18.26	1.366	102	70	130			
Surr: BFB	1600		730.5		224	37.7	212			S

Sample ID: 2204D42-002amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-121A	Batch ID: A87642		RunNo: 87642							
Prep Date:	Analysis Date: 4/30/2022		SeqNo: 3102638		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.7	18.26	1.366	102	70	130	0.0730	20	
Surr: BFB	1600		730.5		223	37.7	212	0	0	S

Qualifiers:

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

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

WO#: 2204D42

09-May-22

Client: GHD Midland**Project:** Yates As Fee

Sample ID: 100ng BTEX lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B87642			RunNo: 87642						
Prep Date:	Analysis Date: 4/30/2022			SeqNo: 3102639		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

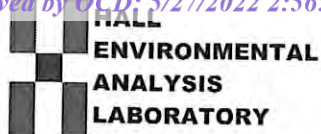
Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B87642			RunNo: 87642						
Prep Date:	Analysis Date: 4/30/2022			SeqNo: 3102640		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

Sample ID: 2204D42-001ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BH-113A	Batch ID: B87642			RunNo: 87642						
Prep Date:	Analysis Date: 4/30/2022			SeqNo: 3102649		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.018	0.7205	0	91.9	68.8	120			
Toluene	0.68	0.036	0.7205	0	94.9	73.6	124			
Ethylbenzene	0.69	0.036	0.7205	0	95.4	72.7	129			
Xylenes, Total	2.1	0.072	2.162	0	95.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.55		0.7205		75.8	70	130			

Sample ID: 2204D42-001amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: BH-113A	Batch ID: B87642			RunNo: 87642						
Prep Date:	Analysis Date: 4/30/2022			SeqNo: 3102650		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.64	0.018	0.7205	0	89.1	68.8	120	3.17	20	
Toluene	0.66	0.036	0.7205	0	91.8	73.6	124	3.29	20	
Ethylbenzene	0.67	0.036	0.7205	0	93.3	72.7	129	2.20	20	
Xylenes, Total	2.0	0.072	2.162	0	92.9	75.7	126	2.23	20	
Surr: 4-Bromofluorobenzene	0.55		0.7205		75.8	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: 2204D42

RcptNo: 1

Received By: Juan Rojas

4/30/2022 8:30:00 AM

Juan Rojas

Completed By: Juan Rojas

4/30/2022 8:48:26 AM

*Juan Rojas*Reviewed By: *JR 04/30/2022*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: *JR 4/30/22*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	5.5	Good				



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 06, 2022

BECKY HASKELL

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: YATES AS FEE

Enclosed are the results of analyses for samples received by the laboratory on 05/05/22 16:00.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: BHX - 2 A (H221896-01)

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	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTX	<0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	05/06/2022	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	05/06/2022	ND	198	98.8	200	3.70	
DRO >C10-C28*	200	10.0	05/06/2022	ND	193	96.3	200	4.40	
EXT DRO >C28-C36	35.6	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: BHX - 3 A (H221896-02)

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	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEx	<0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	05/06/2022	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	05/06/2022	ND	198	98.8	200	3.70	
DRO >C10-C28*	160	10.0	05/06/2022	ND	193	96.3	200	4.40	
EXT DRO >C28-C36	31.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.9 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 32 (H221896-03)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTX	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	801	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	136	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.2 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 33 (H221896-04)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	269	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	61.1	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 84.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 18 A (H221896-05)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.9 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 19 A (H221896-06)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.0 % 59.5-142

Cardinal Laboratories

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 24 A (H221896-07)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.5 % 59.5-142

Cardinal Laboratories

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 25 A (H221896-08)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1870	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.7 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 25 (H221896-09)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.8 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 26 (H221896-10)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 84.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.3 % 59.5-142

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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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 27 (H221896-11)

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	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTX	<0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.6 % 59.5-142

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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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 28 (H221896-12)

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	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTX	<0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.1 % 59.5-142

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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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 29 (H221896-13)

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	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEx	<0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.9 % 59.5-142

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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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 30 (H221896-14)

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	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTX	<0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	05/06/2022	ND	416	104	400	3.77	QM-07	

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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.2 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 31 (H221896-15)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.8 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 34 (H221896-16)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEx	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10100	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 74.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.9 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 35 (H221896-17)

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	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTX	<0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	31.3	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.0 % 59.5-142

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Mike Snyder For 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: 05/05/2022
 Reported: 05/06/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/05/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SWX - 36 (H221896-18)

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	05/05/2022	ND	2.13	106	2.00	2.91		
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34		
Total BTEX	<0.300	0.300	05/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	05/06/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	229	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	166	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.5 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 09, 2022

BECKY HASKELL

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: YATES AS FEE

Enclosed are the results of analyses for samples received by the laboratory on 05/06/22 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/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: 05/06/2022
 Reported: 05/09/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 10 B (H221924-01)

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	05/06/2022	ND	2.09	104	2.00	7.55	
Toluene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	8.31	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	1.98	99.0	2.00	7.16	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.18	103	6.00	7.05	
Total BTEx	<0.300	0.300	05/06/2022	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	16.0	16.0	05/08/2022	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	05/07/2022	ND	195	97.5	200	3.84	
DRO >C10-C28*	<10.0	10.0	05/07/2022	ND	204	102	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	05/07/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.8 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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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: 05/06/2022
 Reported: 05/09/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 11 A (H221924-02)

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	05/06/2022	ND	2.09	104	2.00	7.55		
Toluene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	8.31		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	1.98	99.0	2.00	7.16		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.18	103	6.00	7.05		
Total BTEX	<0.300	0.300	05/06/2022	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	32.0	16.0	05/08/2022	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	05/07/2022	ND	195	97.5	200	3.84	
DRO >C10-C28*	145	10.0	05/07/2022	ND	204	102	200	2.71	
EXT DRO >C28-C36	122	10.0	05/07/2022	ND					

Surrogate: 1-Chlorooctane 72.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.1 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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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: 05/06/2022
 Reported: 05/09/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 13 A (H221924-03)

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	05/06/2022	ND	2.09	104	2.00	7.55		
Toluene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	8.31		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	1.98	99.0	2.00	7.16		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.18	103	6.00	7.05		
Total BTX	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	128	16.0	05/08/2022	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	05/07/2022	ND	195	97.5	200	3.84	
DRO >C10-C28*	<10.0	10.0	05/07/2022	ND	204	102	200	2.71	
EXT DRO >C28-C36	10.8	10.0	05/07/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.2 % 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: 05/06/2022
 Reported: 05/09/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 14 A (H221924-04)

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	05/06/2022	ND	2.09	104	2.00	7.55		
Toluene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	8.31		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	1.98	99.0	2.00	7.16		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.18	103	6.00	7.05		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	05/08/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2022	ND	195	97.5	200	3.84	
DRO >C10-C28*	<10.0	10.0	05/09/2022	ND	204	102	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	05/09/2022	ND					

Surrogate: 1-Chlorooctane 62.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.7 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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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

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



GH D a:

[illegible]

Relinquished By:

Relinquished By: 

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C	Sample Condition
23.3	Cool
23.3	Intact

Corrected Temp. °C	Yes	No	Yes	No
22.8	☒	☐	☒	☐

CHECKED BY:
(Initials)

... ..

Rush

	Cool	Intact	Observed Temp.
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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: YATES AS FEE

Enclosed are the results of analyses for samples received by the laboratory on 05/12/22 14:50.

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: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:18

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 11 B	H222020-01	Soil	12-May-22 10:45	12-May-22 14:50
SWX - 37	H222020-02	Soil	12-May-22 10:50	12-May-22 14:50
BHX - 14 B	H222020-03	Soil	12-May-22 10:55	12-May-22 14:50
BH - 124	H222020-04	Soil	12-May-22 11:00	12-May-22 14:50

05/16/22 - Client changed the sample ID on -01. This is the revised report and will replace the one sent on 05/13/22.

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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: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:18

SW - 11 B
H222020-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories**Inorganic Compounds**

Chloride	2140		16.0	mg/kg	4	2051304	GM	13-May-22	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051205	MS/	12-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140 2051205 MS/ 12-May-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
DRO >C10-C28*	1010		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
EXT DRO >C28-C36	157		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	

Surrogate: 1-Chlorooctane 80.8 % 66.9-136 2051214 MS 13-May-22 8015B

Surrogate: 1-Chlorooctadecane 100 % 59.5-142 2051214 MS 13-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: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:18

SWX - 37**H222020-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories**Inorganic Compounds**

Chloride	2880		16.0	mg/kg	4	2051304	GM	13-May-22	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051205	MS/	12-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.4 %		69.9-140	2051205	MS/	12-May-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
DRO >C10-C28*	553		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
EXT DRO >C28-C36	96.7		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	

Surrogate: 1-Chlorooctane			82.0 %		66.9-136	2051214	MS	13-May-22	8015B	

Surrogate: 1-Chlorooctadecane			96.4 %		59.5-142	2051214	MS	13-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: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:18

BHX - 14 B
H222020-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2051304	GM	13-May-22	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051205	MS/	12-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	69.9-140		2051205	MS/	12-May-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
DRO >C10-C28*	350		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
EXT DRO >C28-C36	251		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	

Surrogate: 1-Chlorooctane			85.7 %	66.9-136		2051214	MS	13-May-22	8015B	

Surrogate: 1-Chlorooctadecane			86.2 %	59.5-142		2051214	MS	13-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: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:18

BH - 124
H222020-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2051304	GM	13-May-22	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2051205	MS/	12-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.8 %		69.9-140	2051205	MS/	12-May-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
DRO >C10-C28*	194		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
EXT DRO >C28-C36	119		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	

Surrogate: 1-Chlorooctane			113 %		66.9-136	2051214	MS	13-May-22	8015B	

Surrogate: 1-Chlorooctadecane			111 %		59.5-142	2051214	MS	13-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: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:18

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2051304 - 1:4 DI Water									
Blank (2051304-BLK1)					Prepared & Analyzed: 13-May-22				
Chloride	ND	16.0	mg/kg						
LCS (2051304-BS1)					Prepared & Analyzed: 13-May-22				
Chloride	416	16.0	mg/kg	400	104	80-120			
LCS Dup (2051304-BSD1)					Prepared & Analyzed: 13-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: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:18

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 2051205 - Volatiles**Blank (2051205-BLK1)**

Prepared & Analyzed: 12-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 (2051205-BS1)

Prepared & Analyzed: 12-May-22

Benzene	2.08	0.050	mg/kg	2.00		104	83.4-122			
Toluene	2.04	0.050	mg/kg	2.00		102	84.2-126			
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.2	84.2-121			
m,p-Xylene	4.09	0.100	mg/kg	4.00		102	89.9-126			
o-Xylene	1.95	0.050	mg/kg	2.00		97.7	84.3-123			
Total Xylenes	6.04	0.150	mg/kg	6.00		101	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500		97.2	69.9-140			

LCS Dup (2051205-BSD1)

Prepared & Analyzed: 12-May-22

Benzene	2.16	0.050	mg/kg	2.00		108	83.4-122	3.87	12.6	
Toluene	2.14	0.050	mg/kg	2.00		107	84.2-126	4.81	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.2-121	4.00	13.9	
m,p-Xylene	4.26	0.100	mg/kg	4.00		106	89.9-126	4.13	13.6	
o-Xylene	2.03	0.050	mg/kg	2.00		102	84.3-123	3.87	14.1	
Total Xylenes	6.29	0.150	mg/kg	6.00		105	89.1-124	4.04	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	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: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-May-22 12:18

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

Batch 2051214 - General Prep - Organics**Blank (2051214-BLK1)**

Prepared & Analyzed: 12-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	57.1		mg/kg	50.0		114	66.9-136			
Surrogate: 1-Chlorooctadecane	60.2		mg/kg	50.0		120	59.5-142			

LCS (2051214-BS1)

Prepared & Analyzed: 12-May-22

GRO C6-C10	218	10.0	mg/kg	200		109	78.5-128			
DRO >C10-C28	212	10.0	mg/kg	200		106	75.8-135			
Total TPH C6-C28	430	10.0	mg/kg	400		108	81.5-127			
Surrogate: 1-Chlorooctane	61.4		mg/kg	50.0		123	66.9-136			
Surrogate: 1-Chlorooctadecane	67.9		mg/kg	50.0		136	59.5-142			

LCS Dup (2051214-BSD1)

Prepared & Analyzed: 12-May-22

GRO C6-C10	238	10.0	mg/kg	200		119	78.5-128	8.39	21.4	
DRO >C10-C28	226	10.0	mg/kg	200		113	75.8-135	6.68	17.9	
Total TPH C6-C28	464	10.0	mg/kg	400		116	81.5-127	7.55	17.6	
Surrogate: 1-Chlorooctane	67.5		mg/kg	50.0		135	66.9-136			
Surrogate: 1-Chlorooctadecane	74.3		mg/kg	50.0		149	59.5-142			S-04

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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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 18, 2022

BECKY HASKELL

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: YATES AS FEE

Enclosed are the results of analyses for samples received by the laboratory on 05/17/22 15:40.

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".

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: 05/17/2022
 Reported: 05/18/2022
 Project Name: YATES AS FEE
 Project Number: 11228401
 Project Location: EOG - ARTESIA NM

Sampling Date: 05/17/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 11 C (H222095-01)

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	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/17/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.37	106	6.00	2.82	
Total BTX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	144	16.0	05/18/2022	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	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.6 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

**BILL TO**

ANALYSIS REQUEST

[illegible]

Relinquished By:

Date: 5/17 Received By:

Relinquished By: 

Time: 1540
Date:
Received By: 

Received By: Dr. Odriquet

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address: Betty Chase, Health
Team, Carlson@GHTD.COM, Zach.Comino@GHTD.COM
Amber - GRIFFIN@EDUresources.COM

REMARKS:

Push! at the

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

☐ Yes ☐ Yes

Thermometer ID #113

1

☐ Yes ☐ Yes

2

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Incident ID	nAPP2111230058
District RP	
Facility ID	
Application ID	

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: Amber Griffin Title: Rep Safety & Environmental Sr
Signature: Amber Griffin Date: 5/27/2022
email: Amber_Griffin@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Robert Hamlet Date: 9/13/2022

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: Robert Hamlet Date: 9/13/2022
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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 111663

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 111663
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2111230058 YATES AS FEE BATTERY, thank you. This closure is approved.	9/13/2022