

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	nAPP2112053226
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.42186 Longitude -104.54790
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Zingaro ANG Federal Battery	Site Type Battery
Date Release Discovered 04/19/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	1	22S	23S	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)

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

Cause of Release Unknown historical release, no known volume or date. Discovered within the battery during P&A activities where an oil tank was located.

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Chase Settle</u> Signature: <u></u> email: <u>Chase_Settle@eogresources.com</u>	Title: <u>Rep Safety & Environmental Sr</u> Date: <u>04/30/2021</u> Telephone: <u>575-748-1471</u>
<u>OCD Only</u>	
Received by: _____ Date: _____	

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Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 05/09/2022
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 05/09/2022
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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

Signature: Jennifer Nobui Date: 05/26/2022

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Closure

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

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

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

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

Printed Name: 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: Jennifer Nobui Date: 06/06/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

Our ref: 11228201

May 26, 2022

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

Re: **Site Closure Report**
Zingaro ANG Federal Battery Release Site
EOG Resources Inc.
Incident ID: nAPP2112053226
H-01-22S-23E, 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, analyses, and remedial activities in the affected areas at the EOG Zingaro ANG Federal Battery Release Site (Site). The Site is located in Unit Letter H Section 01 of Township 22 South and Range 23 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.42186 N latitude and 104.54790 W longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figures 2 and 3, respectively.

2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on April 30, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number nAPP2112053226. A Site Characterization and Remediation Work Plan dated September 30, 2021 was submitted for NMOCD consideration. The work plan was denied by the NMOCD due to incomplete vertical delineation. An Amended Site Characterization and Remediation Work Plan (Backfill Request) dated May 5, 2022 was submitted to the NMOCD for consideration. The work plan (Backfill Request) was approved by the NMOCD on May 26, 2022 with no conditions. The Release Notification, Site

Assessment/Characterization and Remediation Plan portions of Form C-141 for Incident Number nAPP2112053226 are attached to the front of this report.

3. Groundwater and Site Characterization

GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico.

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area of high karst potential so the release must be treated as if it occurred less than 50 feet from groundwater. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. No groundwater data could be located within one-half mile of the Site. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
High Karst Potential Area	Unknown, Treated as <50 ft.

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

Constituent	Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	N/A
Benzene	10 mg/kg
BTEX	50 mg/kg

4. Initial Soil Delineation Assessment Summary and Findings

On May 18, 2021, GHD Services Inc. (GHD) and EOG's contractor BDS Enterprise, LLC (BDS), on behalf of EOG, installed ten (10) test pits within the former tank battery containment at the site. The test pit locations were excavated to approximately three (3) feet below ground surface with samples collected from the bottom of the test pits.

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 six (6) of ten (10) soil samples exceeded applicable Table I closure criteria: TP-1 and TP-4 through TP-8. Figure 2, Initial Site Assessment: 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. Excavation, Waste Management and Confirmation Sampling

Due to the initial soil sampling activities exhibiting TPH and chloride exceedances above the Table I Closure Criteria, GHD and EOG contractor Culberson Construction Energy Services (CCI) mobilized to the Site on June 25, 2021, to excavate the affected soils. Excavation activities continued through August 17, 2021, utilizing a trackhoe and hammerhoe.

On August 4, 2021, GHD collected ten (10) bottom hole and twenty-three (23) confirmation composite soil samples (BH-1 through BH-10 and SW-1 through SW-23) after a confirmation sampling notification was submitted to the NMOCD two business days prior. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated that confirmation soil sample BH-5, BH-8, SW-17, and SW-19 exhibited TPH concentration above Table 1 closure criteria. Confirmation samples collected represented areas no greater than (200) square feet. No samples exhibited benzene or BTEX concentrations above Table I Closure Criteria. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment D. Analytical results are summarized in Attached Table 1.

On August 5, 2021, GHD returned to the site and collected sixteen additional bottom hole samples (BH-11 through BH-26) and two (2) additional sidewall samples (SW-24 and SW-25). The confirmation composite samples were collected from areas representing no more than two hundred (200) square feet. Samples were then taken to HEAL in Albuquerque, New Mexico. Analytical results indicated BH-17 and BH-19 exhibited a TPH concentration of 143 mg/kg and chloride concentrations of 770 mg/kg, respectively. No samples exhibited benzene or BTEX concentrations above Table I closure criteria.

CCI continued with further excavation activities at the site and GHD returned on August 12, 2021, after EOG provided at least a two-day sampling notification to the NMOCD. An additional nine (9) bottom hole (BH-27 through BH-35) confirmation composite soil samples were collected from a depth of approximately nineteen (19) feet below ground surface and from areas no greater than two hundred (200) square feet. The samples were submitted to HEAL in Albuquerque, New Mexico. Analytical results indicated six (6) samples (BH-30 through BH-35) still exhibited Total TPH concentrations exceeding Table I Closure Criteria.

CCI continued excavation activities, and GHD returned to the site on August 17, 2021, to re-sample some of the areas that had previously exceeded Table I closure criteria. Composite confirmation samples were collected by use of a trackhoe to gather collectable samples from bedrock. The bedrock was swept free of debris before any samples were collected. GHD collected four (4) bottom hole (BH-5A, BH-8A, BH-17A, and BH-19A) and two (2) sidewall (SW-17A and SW-19A) confirmation composite samples from areas representing no more than two hundred (200) square feet. Samples were taken to HEAL in Albuquerque, New Mexico. Analytical results indicated BTEX, TPH, and chloride concentrations were below Table 1 Closure Criteria. All final soil confirmation samples collected from the excavation were below Table I closure criteria with the exception of BH-30 through BH-35. Figure 3 depicts the locations of all confirmation bottom hole and sidewall samples. A photographic log is included in Attachment B.

Due to the confirmation soil sampling activities exhibiting TPH exceedances above the Table I closure criteria, Standard Safety and Supply (SS) mobilized to the Site to further excavate the areas where BH-30 through BH-35 were collected utilizing a hammerhoe. On February 23, 2022, GHD, returned to the site and collected an additional six (6) confirmation samples from the bottom of the excavation (BH-30A through BH-35A) at approximately nineteen and one half (19.5) feet below ground surface. Samples were taken to HEAL in Albuquerque, New Mexico. Analytical results indicated BTEX, TPH, and chloride concentrations were below Table I closure criteria for all samples. Analytical results are provided in Table 1, on Figure 3, and in the Laboratory Analytical Reports provided in Attachment D. Confirmation Sampling Notifications are provided as Attachment C.

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 4,518 tons of impacted soil and rock were disposed at Lea Land, LLC, the waste manifests from July 9, 2021, through February 23, 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.

6. nAPP2112053226 Closure Request

To conclude, all composite confirmation samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Confirmation sample locations represented areas no greater than two hundred (200) square feet and final confirmation samples exhibited concentrations below Table I closure criteria. The excavation remains un-backfilled. Photos of excavation are provided in attachment B.

Site Characterization, soil delineation, and remediation activities for incident number nAPP2112053226 have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2112053226. Backfill activities will be completed as soon as scheduling is complete.

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



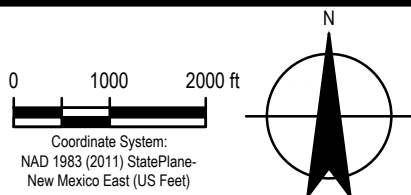
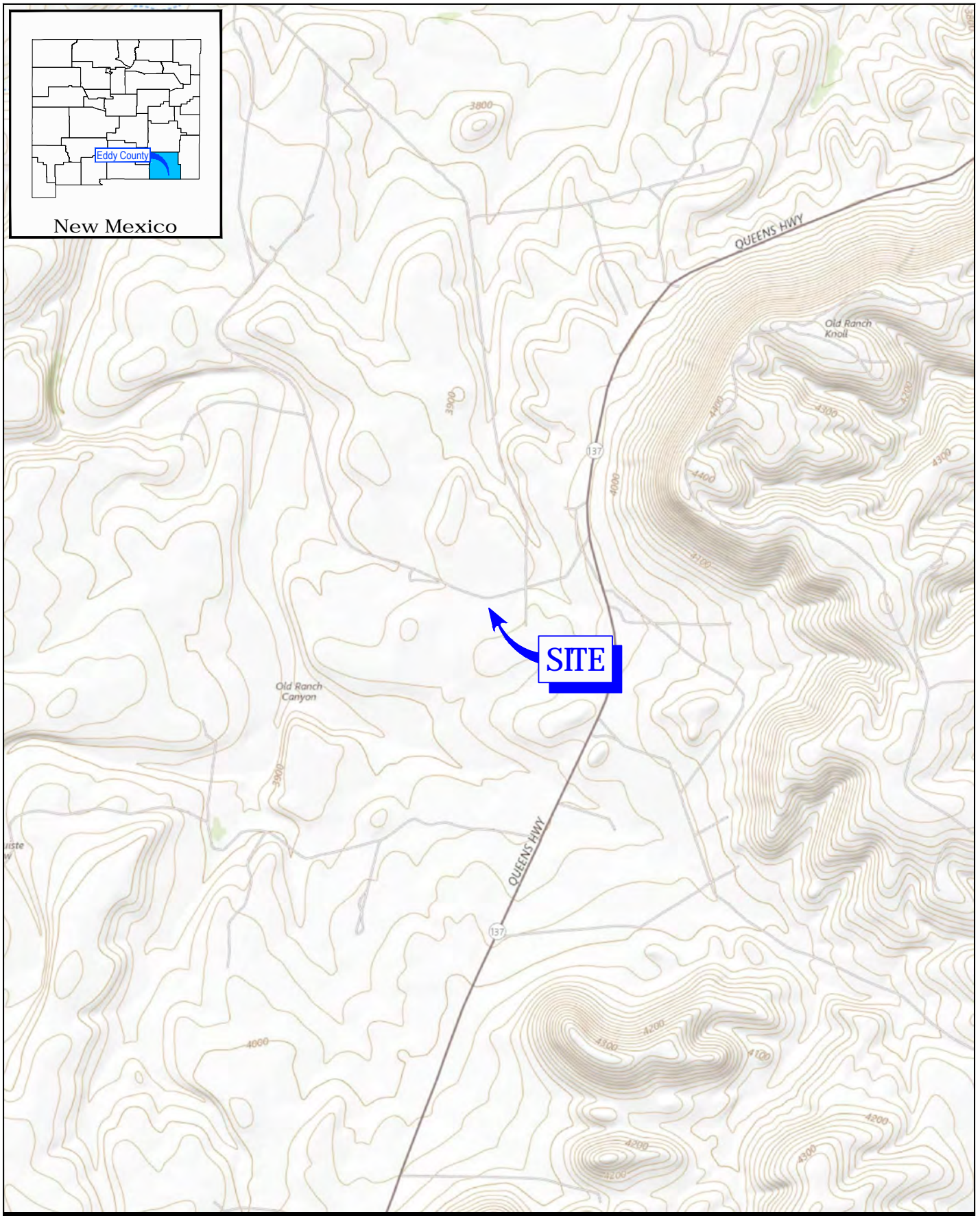
Tom Laron
Project Director

BH/tl/1

Encl. Figure 1 – Site Location Map
Figure 2 – Initial Site Assessment: Analytical Results Map
Figure 3 – Confirmation Sampling: Soil Analytical Results Map
Table 1 – Summary of Soil Analytical Data
Table 2 – Daily 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
ZINGARO ANG FEDERAL BATTERY

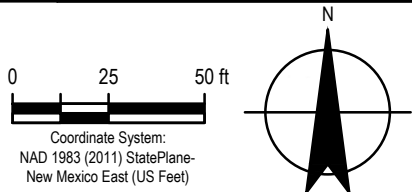
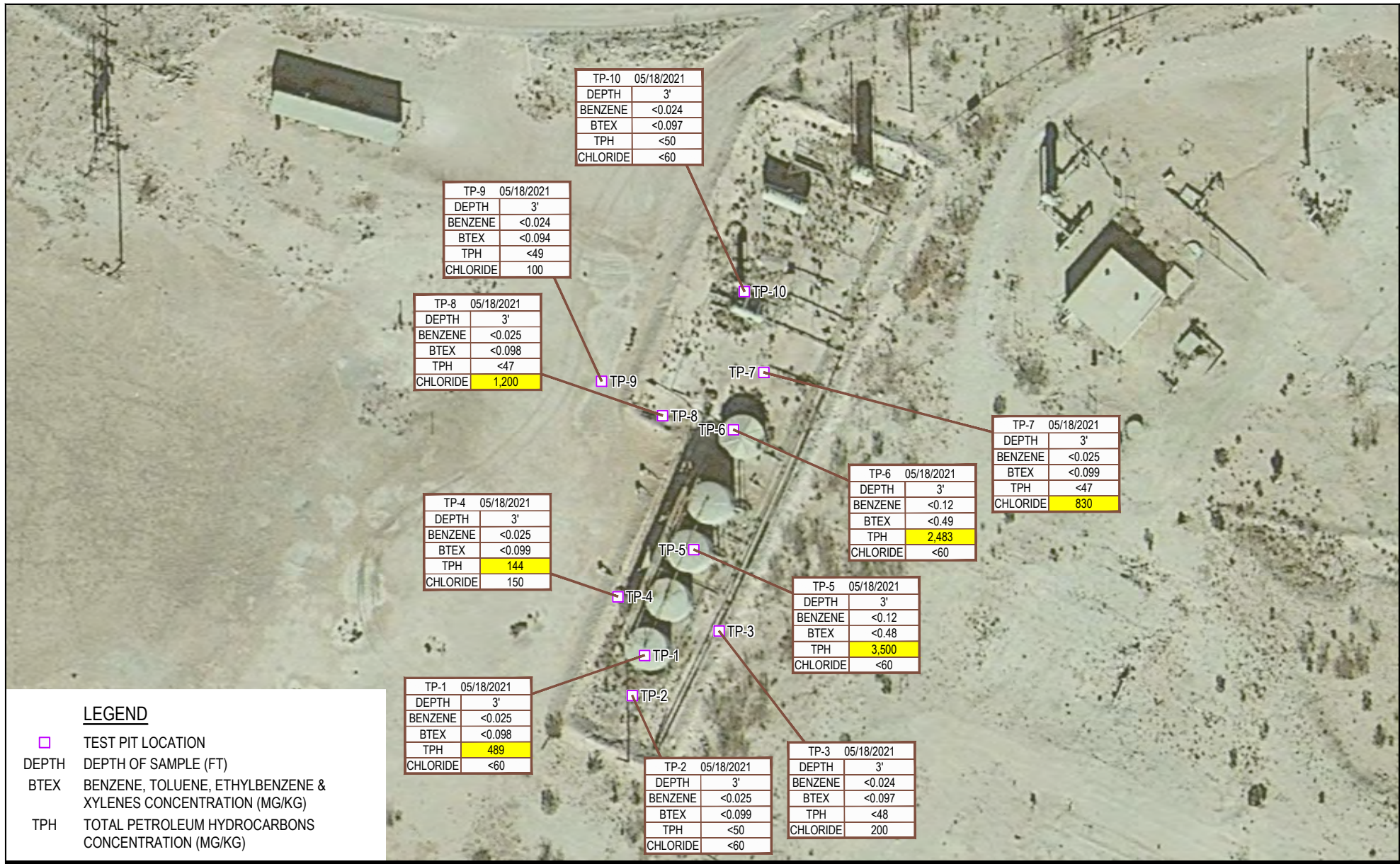
Project No. 11228201
Date September 2021

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\USMidland\Projects\562\11228201\Digital_Design\ACAD 2018\Figures\11228201-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Bond Draw and Malaga, New Mexico"
Lat/Long: 32.421927° North, 104.547849° West



NOTES:

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



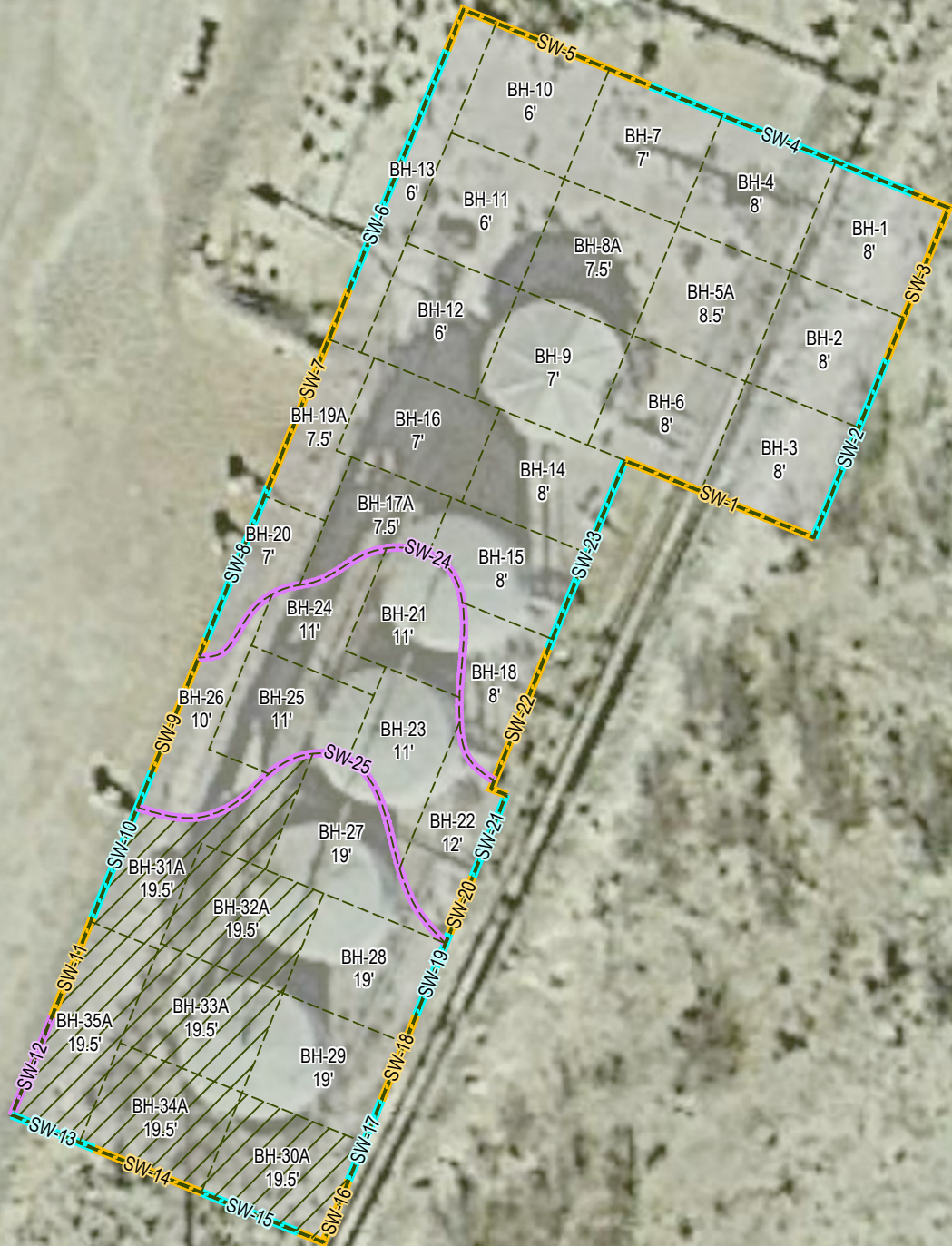
EOG RESOURCES
EDDY COUNTY, NEW MEXICO
ZINGARO ANG FEDERAL BATTERY

Project No. 11228201
Date September 2021

**SITE ASSESSMENT:
SOIL ANALYTICAL RESULTS MAP**

FIGURE 2

Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH	Chloride
			(mg/kg)	(mg/kg)	Total GRO/DROMRO	(mg/kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg
Confirmation Samples - Sidewall						
SW-1	8/4/21	-	<0.025	<0.099	<49	440
SW-2	8/4/21	-	<0.024	<0.097	<44	380
SW-3	8/4/21	-	<0.024	<0.097	<44	400
SW-4	8/4/21	-	<0.025	<0.10	<48	<60
SW-5	8/4/21	-	<0.025	<0.099	<48	<60
SW-6	8/4/21	-	<0.025	<0.099	<50	<60
SW-7	8/4/21	-	<0.024	<0.097	<47	<60
SW-8	8/4/21	-	<0.025	<0.10	<43	<60
SW-9	8/4/21	-	<0.025	<0.099	<45	270
SW-10	8/4/21	-	<0.024	<0.098	<42	310
SW-11	8/4/21	-	<0.025	<0.099	<47	330
SW-12	8/4/21	-	<0.024	<0.097	20	270
SW-13	8/4/21	-	<0.024	<0.098	<47	<60
SW-14	8/4/21	-	<0.025	<0.098	<50	<59
SW-15	8/4/21	-	<0.024	<0.097	<49	<61
SW-16	8/4/21	-	<0.025	<0.099	<50	<60
SW-17	8/4/21	-	<0.025	<0.099	137	240
SW-17A	8/17/21	-	<0.024	<0.098	<46	<60
SW-18	8/4/21	-	<0.024	<0.097	<48	210
SW-19	8/4/21	-	<0.025	<0.10	187	120
SW-19A	8/17/21	-	<0.024	<0.098	<47	<60
SW-20	8/4/21	-	<0.024	<0.097	<47	<61
SW-21	8/4/21	-	<0.023	<0.091	<45	<60
SW-22	8/4/21	-	<0.024	<0.097	<48	<61
SW-23	8/4/21	-	<0.024	<0.097	<48	<60
SW-24	8/5/21	-	<0.024	<0.098	<50	64
SW-25	8/5/21	-	<0.024	<0.097	<48	100



Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH	Chloride
					Total	
			(mg/kg)	(mg/kg)	GRO/DRO/MRO	(mg/kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC			
10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg			
Confirmation Samples - Bottom Hole						
BH-1	8/4/21	8	<0.025	<0.099	<50	500
BH-2	8/4/21	8	<0.024	<0.096	<48	130
BH-3	8/4/21	8	<0.025	<0.099	24	64
BH-4	8/4/21	8	<0.025	<0.098	<49	450
BH-5	8/4/21	8	<0.025	<0.099	340	66
BH-5A	8/17/21	8.5	<0.023	<0.091	<42	74
BH-6	8/4/21	8	<0.025	<0.099	50	150
BH-7	8/4/21	7	<0.024	<0.098	<48	200
BH-8	8/4/21	7	<0.024	<0.098	151	210
BH-8A	8/17/21	7.5	<0.024	<0.095	<47	<60
BH-9	8/4/21	7	<0.024	<0.098	<48	430
BH-10	8/4/21	6	<0.025	<0.099	35	440
BH-11	8/5/21	6	<0.12	<0.49	51	<60
BH-12	8/5/21	6	<0.12	<0.47	<49	170
BH-13	8/5/21	6	<0.12	<0.48	<49	<60
BH-14	8/5/21	8	<0.11	<0.46	<48	<60
BH-15	8/5/21	8	<0.12	<0.48	<50	<60
BH-16	8/5/21	7	<0.023	<0.092	16	130
BH-17	8/5/21	7	<0.024	<0.094	143	<60
BH-17A	8/17/21	7.5	<0.023	<0.091	<47	<60
BH-18	8/5/21	8	<0.023	<0.091	<48	90
BH-19	8/5/21	7	<0.024	<0.094	<47	770
BH-19A	8/17/21	7.5	<0.025	<0.098	<48	<60
BH-20	8/5/21	7	<0.024	<0.095	<49	<59
BH-21	8/5/21	11	<0.025	<0.10	<49	<60
BH-22	8/5/21	12	<0.025	<0.099	69	<60
BH-23	8/5/21	11	<0.024	<0.097	<47	<60
BH-24	8/5/21	11	<0.024	<0.097	<47	<60
BH-25	8/5/21	11	<0.023	<0.093	<48	<60
BH-26	8/5/21	10	<0.023	<0.092	<48	<60
BH-27	8/12/21	19	<0.12	<0.46	10	<60
BH-28	8/12/21	19	<0.12	<0.47	<48	<60
BH-29	8/12/21	19	<0.12	<0.47	46	<60
BH-30	8/12/21	19	<0.12	0.81	1,070	<60
BH-30A	2/23/22	19.5	<0.024	<0.097	<45	85
BH-31	8/12/21	19	<0.12	2.0	700	83
BH-31A	2/23/22	19.5	<0.024	<0.096	<46	73
BH-32	8/12/21	19	<0.12	<0.48	179	<60
BH-32A	2/23/22	19.5	<0.024	<0.096	<43	170
BH-33	8/12/21	19	<0.12	0.52	290	<60
BH-33A	2/23/22	19.5	<0.024	<0.097	<47	100
BH-34	8/12/21	19	<0.023	1.1	165	<59
BH-34A	2/23/22	19.5	<0.024	<0.096	<46	86
BH-35	8/12/21	19	<0.024	<0.096	167	<60
BH-35A	2/23/22	19.5	<0.024	<0.097	<48	240

LEGEND

EXCAVATED AREA

AREA RE-SAMPLED 2/23/22

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

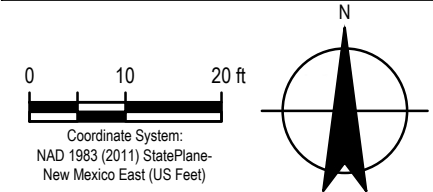
INDICATES SIDE WALL COMPOSITE SAMPLE

SAMPLE POINT EXCAVATED

- 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
ZINGARO ANG FEDERAL BATTERY

CONFIRMATION SAMPLING:
SOIL ANALYTICAL RESULTS MAP

Project No. 11228201
Date March 2022

FIGURE 3

Tables

Table 1
Summary of Soil Analytical Data
Zingaro ANG Federal Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
Initial Assessment Samples - Test Pit												
TP-1	4/27/21	3.5	<0.12	<0.24	<0.24	<0.47	<0.47	<24	1,200	1,300	2,500	150
TP1	5/18/21	3	<0.025	<0.049	<0.049	<0.098	<0.098	19	220	250	489	<60
TP-2	4/27/21	3.5	<0.14	0.42	<0.27	25	25.42	890	1,100	1,000	2,990	650
TP2	5/18/21	3	<0.025	<0.049	<0.049	<0.098	<0.099	<4.9	<9.9	<50	<50	<60
TP-3	4/27/21	3.5	<0.094	0.35	2.5	16	18.85	910	4,000	1,700	6,610	150
TP3	5/18/21	3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	200
TP-4	4/27/21	3.5	0.47	23	29	360	412.47	4,700	2,100	570	7,370	110
TP4	5/18/21	3	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	34	110	144	150
TP-5	4/27/21	3.5	0.42	8.7	20	260	289.12	5,400	2,000	390	7,790	<61
TP5	5/18/21	3	<0.12	<0.24	<0.24	<0.48	<0.48	<24	2,100	1,400	3,500	<60
TP6	5/18/21	3	<0.12	<0.25	<0.25	<0.49	<0.49	83	1,100	1,300	2,483	<60
TP7	5/18/21	3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	830
TP8	5/18/21	3	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	1,200
TP9	5/18/21	3	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	100
TP10	5/18/21	3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	<60
Confirmation Samples - Bottom Hole												
BH-1	8/4/21	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	500
BH-2	8/4/21	8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	130
BH-3	8/4/21	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	24	<47	24	64
BH-4	8/4/21	8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	450
BH-5	8/4/21	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	210	130	340	66
BH-5A	8/17/21	8.5	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<8.4	<42	<42	74
BH-6	8/4/21	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	50	<47	50	150
BH-7	8/4/21	7	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	200
BH-8	8/4/21	7	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	82	69	151	210
BH-8A	8/17/21	7.5	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.3	<47	<47	<60
BH-9	8/4/21	7	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	430
BH-10	8/4/21	6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	35	<48	35	440

Table 1
Summary of Soil Analytical Data
Zingaro ANG Federal Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
BH-11	8/5/21	6	<0.12	<0.24	<0.24	<0.49	<0.49	<24	51	<48	51	<60
BH-12	8/5/21	6	<0.12	<0.24	<0.24	<0.47	<0.47	<24	<9.8	<49	<49	170
BH-13	8/5/21	6	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<9.9	<49	<49	<60
BH-14	8/5/21	8	<0.11	<0.23	<0.23	<0.46	<0.46	<23	<9.5	<48	<48	<60
BH-15	8/5/21	8	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<9.9	<50	<50	<60
BH-16	8/5/21	7	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	16	<49	16	130
BH-17	8/5/21	7	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	78	65	143	<60
BH-17A	8/17/21	7.5	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.4	<47	<47	<60
BH-18	8/5/21	8	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.7	<48	<48	90
BH-19	8/5/21	7	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<47	<47	776
BH-19A	8/17/21	7.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	<60
BH-20	8/5/21	7	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.8	<49	<49	<59
BH-21	8/5/21	11	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	<60
BH-22	8/5/21	12	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	14	55	69	<60
BH-23	8/5/21	11	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.4	<47	<47	<60
BH-24	8/5/21	11	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<47	<60
BH-25	8/5/21	11	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.6	<48	<48	<60
BH-26	8/5/21	10	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.6	<48	<48	<60
BH-27	8/12/21	19	<0.12	<0.23	<0.23	<0.46	<0.46	<23	10	<49	10	<60
BH-28	8/12/21	19	<0.12	<0.24	<0.24	<0.47	<0.47	<24	<9.5	<48	<48	<60
BH-29	8/12/21	19	<0.12	<0.23	<0.23	<0.47	<0.47	<23	46	<50	46	<60
BH-30	8/12/21	19	<0.12	<0.24	<0.24	0.81	0.81	<24	736	346	1,076	<60
BH-30A	2/23/22	19.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	22	<45	<45	85
BH-31	8/12/21	19	<0.12	<0.25	<0.25	2.6	2.6	<25	486	226	766	83
BH-31A	2/23/22	19.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<46	<46	73
BH-32	8/12/21	19	<0.12	<0.24	<0.24	<0.48	<0.48	<24	49	136	179	<60
BH-32A	2/23/22	19.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.6	<43	<43	170
BH-33	8/12/21	19	<0.12	<0.24	<0.24	0.52	0.52	<24	266	96	296	<60
BH-33A	2/23/22	19.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<47	100
BH-34	8/12/21	19	<0.023	<0.046	<0.046	1.1	1.1	79	86	<49	165	<59
BH-34A	2/23/22	19.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<46	<46	86

Table 1
Summary of Soil Analytical Data
Zingaro ANG Federal Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
BH-35	8/12/21	19	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	100	67	167	<60
BH-35A	2/23/22	19.5	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	240
Confirmation Samples - Sidewall												
SW-1	8/4/21	-	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	440
SW-2	8/4/21	-	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<8.9	<44	<44	380
SW-3	8/4/21	-	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.9	<44	<44	400
SW-4	8/4/21	-	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	<60
SW-5	8/4/21	-	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<48	<48	<60
SW-6	8/4/21	-	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<50	<50	<60
SW-7	8/4/21	-	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.4	<47	<47	<60
SW-8	8/4/21	-	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.6	<43	<43	<60
SW-9	8/4/21	-	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.9	<45	<45	270
SW-10	8/4/21	-	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.4	<42	<42	310
SW-11	8/4/21	-	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<47	<47	330
SW-12	8/4/21	-	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	20	<50	20	270
SW-13	8/4/21	-	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	<60
SW-14	8/4/21	-	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	<59
SW-15	8/4/21	-	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<49	<49	<61
SW-16	8/4/21	-	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	<60
SW-17	8/4/21	-	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	86	51	137	240
SW-17A	8/17/21	-	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	<60
SW-18	8/4/21	-	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.7	<48	<48	210
SW-19	8/4/21	-	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	110	77	167	120
SW-19A	8/17/21	-	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	<60
SW-20	8/4/21	-	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<47	<61
SW-21	8/4/21	-	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<8.9	<45	<45	<60
SW-22	8/4/21	-	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<48	<48	<61
SW-23	8/4/21	-	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	<60
SW-24	8/5/21	-	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	64
SW-25	8/5/21	-	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	100

Table 1
Summary of Soil Analytical Data
Zingaro ANG Federal Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg

- Notes:
1. Values reported in mg/kg

2. < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

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

8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

B-BH-2

Sample Point Excavated

Table 2
Daily Disposal Summary
Zingaro ANG Federal Battery
EOG Resources
Eddy, County, New Mexico

Date of Disposal	Total Pounds Disposed	Total Tons Disposed
7/9/2021	631,460	315.73
7/12/2021	50,680	25.34
7/15/2021	126,920	63.46
7/16/2021	274,520	137.26
7/19/2021	163,640	81.82
7/21/2021	178,080	89.04
7/22/2021	167,300	83.7
7/26/2021	744,260	372.13
7/27/2021	701,920	351.0
7/28/2021	888,620	444.31
7/29/2021	975,340	487.7
7/30/2021	1,060,080	530.04
8/4/2021	577,750	288.88
8/5/2021	661,880	330.94
8/6/2021	695,540	347.77
8/10/2021	61,060	30.53
8/11/2021	374,440	187.22
8/12/2021	263,400	131.70
2/23/2022	438,900	219.45
Project Total	9,035,790	4,518





Attachment A

Site Characterization Documentation

Zingaro ANG Federal Battery

Karst Potential Map

Legend

-  High
-  Low
-  Medium
-  Zingaro ANG Federal Battery

 Zingaro ANG Federal Battery





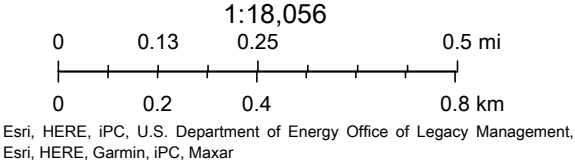
1000 ft

Zingaro ANG Federal Battery



7/4/2021 3:33:45 PM




-  OSE District Boundary
-  SiteBoundaries

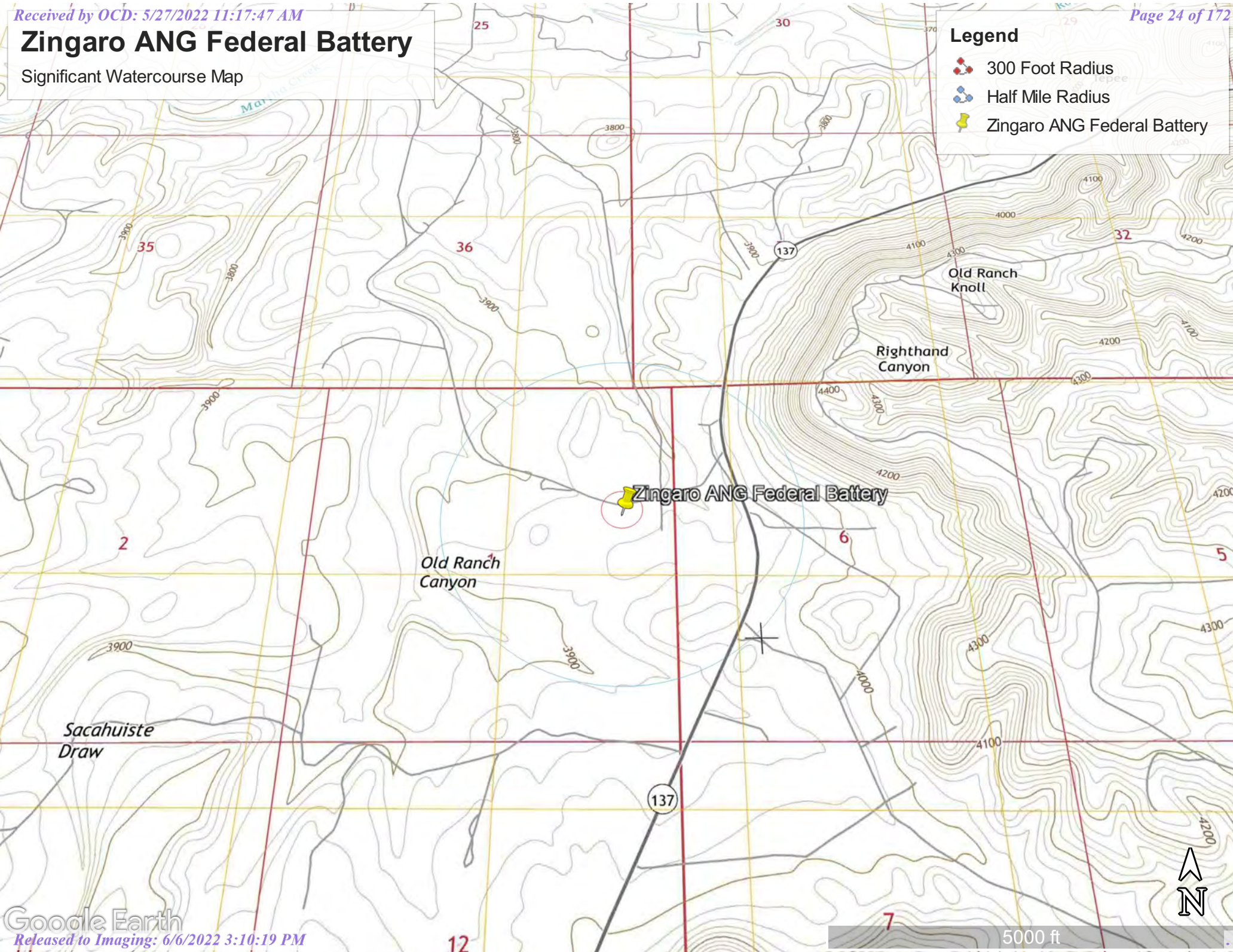


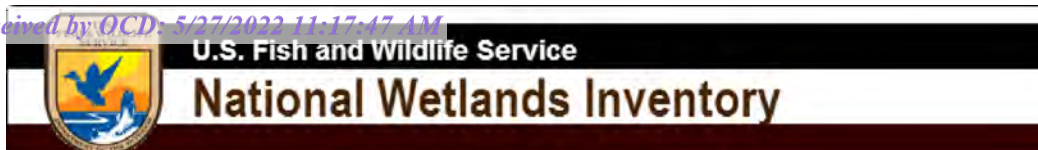
Zingaro ANG Federal Battery

Significant Watercourse Map

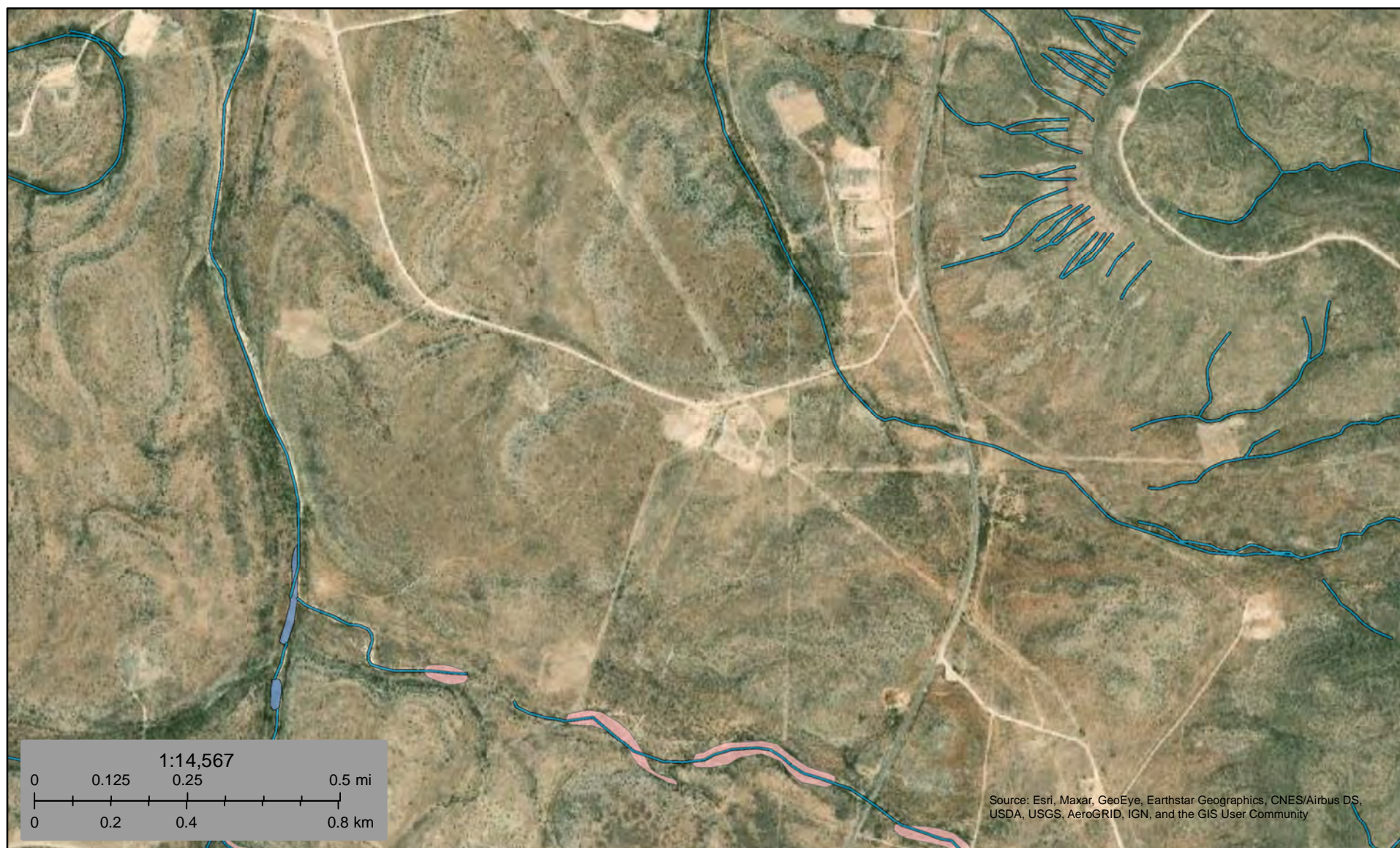
Legend

-  300 Foot Radius
-  Half Mile Radius
-  Zingaro ANG Federal Battery










Zingaro ANG Federal Battery




July 4, 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°33'11"W 32°25'34"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
MAP PANELS		Profile Baseline
		Hydrographic Feature
		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 9/25/2021 at 2:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

0 250 500 1,000 1,500 2,000 Feet 1:6,000

104°32'34"W 32°25'4"N

Released to Imaging: 6/6/2022 3:10:19 PM

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

Attachment B Photographic Log



Site Photograph
EOG Zingaro ANG Federal Battery
Release Site.

GHD | Report for EOG | 11228201

Attachment C

Confirmation Sampling Notifications

Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Monday, August 2, 2021 10:31 AM
To: Becky Haskell; Zach Comino; Tom Larson
Subject: FW: Zingaro ANG Federal Battery Sampling Notification (nAPP2112053226)

fyi

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, August 2, 2021 8:17 AM
To: Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Ashley Bravo <Ashley_Bravo@eogresources.com>
Subject: Zingaro ANG Federal Battery Sampling Notification (nAPP2112053226)

Good Morning,

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

Zingaro ANG Federal Battery
30-015-27934
H-1-22S-23E
2182 FNL & 872 FEL
Eddy County, NM
nAPP2112053226

Sampling will begin at 12:30 p.m. on Wednesday, August 4, 2021.

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: Tuesday, August 10, 2021 12:10 PM
To: Becky Haskell; Tom Larson; Zach Comino
Subject: FW: Zingaro ANG Federal Battery (nAPP2112053226) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, August 9, 2021 1:39 PM
To: Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Ashley Bravo <Ashley_Bravo@eogresources.com>
Subject: Zingaro ANG Federal Battery (nAPP2112053226) Sampling Notification

Good afternoon,

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

Zingaro ANG Federal Battery
30-015-27934
H-1-22S-23E
2182 FNL & 872 FEL
Eddy County, NM
nAPP2112053226

Sampling will begin at 12:30 p.m. on Thursday, August 12, 2021.

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, August 12, 2021 10:47 AM
To: Zach Comino; Becky Haskell; Tom Larson
Subject: FW: Zingaro ANG Federal Battery (nAPP2112053226) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, August 12, 2021 9:44 AM
To: Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Ashley Bravo <Ashley_Bravo@eogresources.com>
Subject: Zingaro ANG Federal Battery (nAPP2112053226) Sampling Notification

Good Morning,

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

Zingaro ANG Federal Battery
H-1-22S-23E
Eddy County, NM
nAPP2112053226

Sampling will begin at 12:30 p.m. on Tuesday, August 17, 2021.

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, February 17, 2022 11:17 AM
To: Becky Haskell; Zach Comino
Subject: FW: Zingaro ANG Federal Battery (nAPP2112053226) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, February 17, 2022 9:45 AM
To: Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>
Subject: Zingaro ANG Federal Battery (nAPP2112053226) Sampling Notification

Good morning,

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

Zingaro ANG Federal Battery
H-1-22S-22E
Eddy County, NM
nAPP2112053226

Sampling will begin at 8:00 a.m. on Wednesday, February 23, 2022.

Thank you,

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



Appendix D

Laboratory Analytical Reports and Chain-of-Custody Documentation



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

May 28, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Zingaro Ang Federal Battery

OrderNo.: 2105952

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 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: 2105952

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105952

Project: Zingaro Ang Federal Battery

Lab ID: 2105952-001

Collection Date: 5/18/2021 11:00:00 AM

Client Sample ID: TP1

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 1:24:08 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	220	9.4		mg/Kg	1	5/24/2021 10:38:55 AM	60192
Motor Oil Range Organics (MRO)	250	47		mg/Kg	1	5/24/2021 10:38:55 AM	60192
Surr: DNOP	112	70-130		%Rec	1	5/24/2021 10:38:55 AM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	19	4.9		mg/Kg	1	5/26/2021 12:08:44 AM	60188
Surr: BFB	148	70-130	S	%Rec	1	5/26/2021 12:08:44 AM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/26/2021 12:08:44 AM	60188
Toluene	ND	0.049		mg/Kg	1	5/26/2021 12:08:44 AM	60188
Ethylbenzene	ND	0.049		mg/Kg	1	5/26/2021 12:08:44 AM	60188
Xylenes, Total	0.16	0.098		mg/Kg	1	5/26/2021 12:08:44 AM	60188
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/26/2021 12:08:44 AM	60188

Lab ID: 2105952-002

Collection Date: 5/18/2021 11:05:00 AM

Client Sample ID: TP2

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 1:36:33 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/22/2021 6:07:30 PM	60192
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/22/2021 6:07:30 PM	60192
Surr: DNOP	93.3	70-130		%Rec	1	5/22/2021 6:07:30 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/26/2021 12:32:31 AM	60188
Surr: BFB	90.0	70-130		%Rec	1	5/26/2021 12:32:31 AM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/26/2021 12:32:31 AM	60188
Toluene	ND	0.049		mg/Kg	1	5/26/2021 12:32:31 AM	60188
Ethylbenzene	ND	0.049		mg/Kg	1	5/26/2021 12:32:31 AM	60188
Xylenes, Total	ND	0.099		mg/Kg	1	5/26/2021 12:32:31 AM	60188
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/26/2021 12:32:31 AM	60188

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

Qualifiers:

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

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

Page 1 of 14

Analytical Report

Lab Order: 2105952

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105952

Project: Zingaro Ang Federal Battery

Lab ID: 2105952-003

Collection Date: 5/18/2021 11:10:00 AM

Client Sample ID: TP3

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	200	60		mg/Kg	20	5/26/2021 1:48:57 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/22/2021 6:17:16 PM	60192
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2021 6:17:16 PM	60192
Surr: DNOP	104	70-130		%Rec	1	5/22/2021 6:17:16 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/26/2021 12:56:13 AM	60188
Surr: BFB	89.7	70-130		%Rec	1	5/26/2021 12:56:13 AM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/26/2021 12:56:13 AM	60188
Toluene	ND	0.048		mg/Kg	1	5/26/2021 12:56:13 AM	60188
Ethylbenzene	ND	0.048		mg/Kg	1	5/26/2021 12:56:13 AM	60188
Xylenes, Total	ND	0.097		mg/Kg	1	5/26/2021 12:56:13 AM	60188
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	5/26/2021 12:56:13 AM	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		

Page 2 of 14

Analytical Report

Lab Order: 2105952

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2105952
Project: Zingaro Ang Federal Battery

Lab ID: 2105952-004 **Collection Date:** 5/18/2021 11:15:00 AM

Client Sample ID: TP4 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	150	60		mg/Kg	20	5/26/2021 2:01:21 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	34	9.6		mg/Kg	1	5/24/2021 11:02:28 AM	60192
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	5/24/2021 11:02:28 AM	60192
Surr: DNOP	87.9	70-130		%Rec	1	5/24/2021 11:02:28 AM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/26/2021 1:19:53 AM	60188
Surr: BFB	86.6	70-130		%Rec	1	5/26/2021 1:19:53 AM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/26/2021 1:19:53 AM	60188
Toluene	ND	0.050		mg/Kg	1	5/26/2021 1:19:53 AM	60188
Ethylbenzene	ND	0.050		mg/Kg	1	5/26/2021 1:19:53 AM	60188
Xylenes, Total	ND	0.099		mg/Kg	1	5/26/2021 1:19:53 AM	60188
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	5/26/2021 1:19:53 AM	60188

Lab ID: 2105952-005 **Collection Date:** 5/18/2021 11:20:00 AM

Client Sample ID: TP5 **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 2:13:45 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	2100	95		mg/Kg	10	5/22/2021 6:36:59 PM	60192
Motor Oil Range Organics (MRO)	1400	470		mg/Kg	10	5/22/2021 6:36:59 PM	60192
Surr: DNOP	0	70-130	S	%Rec	10	5/22/2021 6:36:59 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/26/2021 2:30:54 AM	60188
Surr: BFB	89.5	70-130	D	%Rec	5	5/26/2021 2:30:54 AM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/26/2021 2:30:54 AM	60188
Toluene	ND	0.24	D	mg/Kg	5	5/26/2021 2:30:54 AM	60188
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/26/2021 2:30:54 AM	60188
Xylenes, Total	ND	0.48	D	mg/Kg	5	5/26/2021 2:30:54 AM	60188
Surr: 4-Bromofluorobenzene	100	70-130	D	%Rec	5	5/26/2021 2:30:54 AM	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: 2105952

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105952

Project: Zingaro Ang Federal Battery

Lab ID: 2105952-006

Collection Date: 5/18/2021 11:30:00 AM

Client Sample ID: TP6

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 3:15:47 PM	60275
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	1100	88		mg/Kg	10	5/22/2021 6:46:47 PM	60192
Motor Oil Range Organics (MRO)	1300	440		mg/Kg	10	5/22/2021 6:46:47 PM	60192
Surr: DNOP	0	70-130	S	%Rec	10	5/22/2021 6:46:47 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	83	25	D	mg/Kg	5	5/26/2021 2:54:32 AM	60188
Surr: BFB	128	70-130	D	%Rec	5	5/26/2021 2:54:32 AM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/26/2021 2:54:32 AM	60188
Toluene	ND	0.25	D	mg/Kg	5	5/26/2021 2:54:32 AM	60188
Ethylbenzene	ND	0.25	D	mg/Kg	5	5/26/2021 2:54:32 AM	60188
Xylenes, Total	ND	0.49	D	mg/Kg	5	5/26/2021 2:54:32 AM	60188
Surr: 4-Bromofluorobenzene	100	70-130	D	%Rec	5	5/26/2021 2:54:32 AM	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: 2105952

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2105952
Project: Zingaro Ang Federal Battery

Lab ID: 2105952-007 **Collection Date:** 5/18/2021 11:45:00 AM
Client Sample ID: TP7 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	830	60		mg/Kg	20	5/26/2021 3:28:11 PM	60275
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/22/2021 6:56:32 PM	60192
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2021 6:56:32 PM	60192
Surr: DNOP	103	70-130		%Rec	1	5/22/2021 6:56:32 PM	60192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/26/2021 3:41:57 AM	60188
Surr: BFB	89.7	70-130		%Rec	1	5/26/2021 3:41:57 AM	60188
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/26/2021 3:41:57 AM	60188
Toluene	ND	0.049		mg/Kg	1	5/26/2021 3:41:57 AM	60188
Ethylbenzene	ND	0.049		mg/Kg	1	5/26/2021 3:41:57 AM	60188
Xylenes, Total	ND	0.099		mg/Kg	1	5/26/2021 3:41:57 AM	60188
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	5/26/2021 3:41:57 AM	60188

Lab ID: 2105952-008 **Collection Date:** 5/18/2021 12:00:00 PM
Client Sample ID: TP8 **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	5/26/2021 3:40:35 PM	60275
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/24/2021 9:08:46 AM	60193
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/24/2021 9:08:46 AM	60193
Surr: DNOP	75.1	70-130		%Rec	1	5/24/2021 9:08:46 AM	60193
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/26/2021 9:09:47 AM	60189
Surr: BFB	91.0	70-130		%Rec	1	5/26/2021 9:09:47 AM	60189
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/26/2021 9:09:47 AM	60189
Toluene	ND	0.049		mg/Kg	1	5/26/2021 9:09:47 AM	60189
Ethylbenzene	ND	0.049		mg/Kg	1	5/26/2021 9:09:47 AM	60189
Xylenes, Total	ND	0.098		mg/Kg	1	5/26/2021 9:09:47 AM	60189
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/26/2021 9:09:47 AM	60189

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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: 2105952

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105952
 Project: Zingaro Ang Federal Battery

Lab ID: 2105952-009 Collection Date: 5/18/2021 12:10:00 PM

Client Sample ID: TP9 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	100	60		mg/Kg	20	5/26/2021 3:53:00 PM	60275
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/24/2021 1:13:39 PM	60193
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/24/2021 1:13:39 PM	60193
Surr: DNOP	139	70-130	S	%Rec	1	5/24/2021 1:13:39 PM	60193
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/26/2021 10:20:05 AM	60189
Surr: BFB	92.5	70-130		%Rec	1	5/26/2021 10:20:05 AM	60189
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/26/2021 10:20:05 AM	60189
Toluene	ND	0.047		mg/Kg	1	5/26/2021 10:20:05 AM	60189
Ethylbenzene	ND	0.047		mg/Kg	1	5/26/2021 10:20:05 AM	60189
Xylenes, Total	ND	0.094		mg/Kg	1	5/26/2021 10:20:05 AM	60189
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/26/2021 10:20:05 AM	60189

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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: 2105952

Date Reported: 5/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105952

Project: Zingaro Ang Federal Battery

Lab ID: 2105952-010

Collection Date: 5/18/2021 12:30:00 PM

Client Sample ID: TP10

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 4:05:24 PM	60275
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/24/2021 12:38:01 PM	60193
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/24/2021 12:38:01 PM	60193
Surr: DNOP	117	70-130		%Rec	1	5/24/2021 12:38:01 PM	60193
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/26/2021 11:30:27 AM	60189
Surr: BFB	95.6	70-130		%Rec	1	5/26/2021 11:30:27 AM	60189
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/26/2021 11:30:27 AM	60189
Toluene	ND	0.048		mg/Kg	1	5/26/2021 11:30:27 AM	60189
Ethylbenzene	ND	0.048		mg/Kg	1	5/26/2021 11:30:27 AM	60189
Xylenes, Total	ND	0.097		mg/Kg	1	5/26/2021 11:30:27 AM	60189
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/26/2021 11:30:27 AM	60189

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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#: 2105952

28-May-21

Client: GHD
Project: Zingaro Ang Federal 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			

Sample ID: MB-60275	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60275	RunNo: 77685								
Prep Date: 5/26/2021	Analysis Date: 5/26/2021	SeqNo: 2757807 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60275	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60275	RunNo: 77685								
Prep Date: 5/26/2021	Analysis Date: 5/26/2021	SeqNo: 2757808 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			

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#: 2105952

28-May-21

Client: GHD
Project: Zingaro Ang Federal Battery

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-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: 2105952-008AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP8	Batch ID: 60193	RunNo: 77605								
Prep Date: 5/21/2021	Analysis Date: 5/24/2021	SeqNo: 2754515 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.7	48.59	0	110	15	184			
Surr: DNOP	4.9		4.859		102	70	130			

Sample ID: 2105952-008AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP8	Batch ID: 60193	RunNo: 77605								
Prep Date: 5/21/2021	Analysis Date: 5/24/2021	SeqNo: 2754516 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	27	9.1	45.33	0	59.0	15	184	66.6	23.9	R
Surr: DNOP	2.2		4.533		48.7	70	130	0	0	S

Sample ID: LCS-60193	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60193	RunNo: 77605								
Prep Date: 5/21/2021	Analysis Date: 5/24/2021	SeqNo: 2754528 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	128	68.9	141			
Surr: DNOP	6.5		5.000		130	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#: 2105952

28-May-21

Client: GHD**Project:** Zingaro Ang Federal Battery

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			

Sample ID: mb-60189	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60189			RunNo: 77682						
Prep Date: 5/21/2021	Analysis Date: 5/26/2021			SeqNo: 2757654	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.5	70	130			

Sample ID: lcs-60189	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60189			RunNo: 77682						
Prep Date: 5/21/2021	Analysis Date: 5/26/2021			SeqNo: 2757655	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	93.2	78.6	131			
Surr: BFB	1000		1000		103	70	130			

Qualifiers:

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

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

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

WO#: 2105952

28-May-21

Client: GHD**Project:** Zingaro Ang Federal Battery

Sample ID: 2105952-008ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP8	Batch ID: 60189	RunNo: 77682								
Prep Date: 5/21/2021	Analysis Date: 5/26/2021	SeqNo: 2757657 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.22	0	85.7	61.3	114			
Surr: BFB	990		969.0		102	70	130			

Sample ID: 2105952-008amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP8	Batch ID: 60189	RunNo: 77682								
Prep Date: 5/21/2021	Analysis Date: 5/26/2021	SeqNo: 2757658 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.6	23.23	0	84.5	61.3	114	5.58	20	
Surr: BFB	950		929.4		102	70	130	0	0	

Sample ID: mb-60246	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 60246	RunNo: 77682								
Prep Date: 5/25/2021	Analysis Date: 5/26/2021	SeqNo: 2757678 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		92.5	70	130			

Sample ID: lcs-60246	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 60246	RunNo: 77682								
Prep Date: 5/25/2021	Analysis Date: 5/26/2021	SeqNo: 2757679 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		99.8	70	130			

Qualifiers:

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

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

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

WO#: 2105952

28-May-21

Client: GHD**Project:** Zingaro Ang Federal Battery

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								
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: mb-60189	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 60189				RunNo: 77682					
Prep Date: 5/21/2021	Analysis Date: 5/26/2021				SeqNo: 2757690	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

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

WO#: 2105952

28-May-21

Client: GHD**Project:** Zingaro Ang Federal Battery

Sample ID: mb-60189	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 60189				RunNo: 77682					
Prep Date: 5/21/2021	Analysis Date: 5/26/2021				SeqNo: 2757690	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-60189	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 60189				RunNo: 77682					
Prep Date: 5/21/2021	Analysis Date: 5/26/2021				SeqNo: 2757691	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: 2105952-009ams	SampType: MS				TestCode: EPA Method 8021B: Volatiles					
Client ID: TP9	Batch ID: 60189				RunNo: 77682					
Prep Date: 5/21/2021	Analysis Date: 5/26/2021				SeqNo: 2757694	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.025	0.9940	0	78.9	76.3	120			
Toluene	0.82	0.050	0.9940	0	82.9	78.5	120			
Ethylbenzene	0.84	0.050	0.9940	0	84.1	78.1	124			
Xylenes, Total	2.5	0.099	2.982	0	84.5	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9940		105	70	130			

Sample ID: 2105952-009amsd	SampType: MSD				TestCode: EPA Method 8021B: Volatiles					
Client ID: TP9	Batch ID: 60189				RunNo: 77682					
Prep Date: 5/21/2021	Analysis Date: 5/26/2021				SeqNo: 2757695	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.024	0.9443	0	78.3	76.3	120	5.82	20	
Toluene	0.78	0.047	0.9443	0	82.5	78.5	120	5.65	20	
Ethylbenzene	0.79	0.047	0.9443	0	83.6	78.1	124	5.74	20	
Xylenes, Total	2.4	0.094	2.833	0	84.5	79.3	125	5.15	20	
Surr: 4-Bromofluorobenzene	1.0		0.9443		105	70	130	0	0	

Sample ID: mb-60246	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 60246				RunNo: 77682					
Prep Date: 5/25/2021	Analysis Date: 5/26/2021				SeqNo: 2757714	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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

WO#: 2105952

28-May-21

Client: GHD**Project:** Zingaro Ang Federal Battery

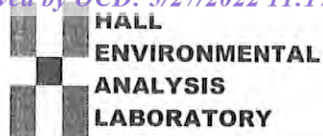
Sample ID: mb-60246	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 60246			RunNo: 77682						
Prep Date: 5/25/2021	Analysis Date: 5/26/2021			SeqNo: 2757714		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: LCS-60246	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 60246			RunNo: 77682						
Prep Date: 5/25/2021	Analysis Date: 5/26/2021			SeqNo: 2757715		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.
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: 2105952

RcptNo: 1

Received By: Juan Rojas 5/21/2021 7:30:00 AM

Completed By: Cheyenne Cason 5/21/2021 8:42:44 AM

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:

JO
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

August 13, 2021

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

RE: Zingaro ANG Federal Battery

OrderNo.: 2108304

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 33 sample(s) on 8/6/2021 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-1

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 12:30:00 PM

Lab ID: 2108304-001

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	440	59		mg/Kg	20	8/11/2021 11:07:10 AM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/9/2021 12:39:28 PM	61822
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/9/2021 12:39:28 PM	61822
Surr: DNOP	90.0	70-130		%Rec	1	8/9/2021 12:39:28 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2021 3:13:00 PM	61814
Surr: BFB	86.4	70-130		%Rec	1	8/9/2021 3:13:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/9/2021 3:13:00 PM	61814
Toluene	ND	0.050		mg/Kg	1	8/9/2021 3:13:00 PM	61814
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2021 3:13:00 PM	61814
Xylenes, Total	ND	0.099		mg/Kg	1	8/9/2021 3:13:00 PM	61814
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	8/9/2021 3:13:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-2

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 12:35:00 PM

Lab ID: 2108304-002

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	380	59		mg/Kg	20	8/11/2021 11:44:23 AM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/9/2021 12:51:36 PM	61822
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/9/2021 12:51:36 PM	61822
Surr: DNOP	90.7	70-130		%Rec	1	8/9/2021 12:51:36 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2021 3:33:00 PM	61814
Surr: BFB	91.9	70-130		%Rec	1	8/9/2021 3:33:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 3:33:00 PM	61814
Toluene	ND	0.049		mg/Kg	1	8/9/2021 3:33:00 PM	61814
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 3:33:00 PM	61814
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2021 3:33:00 PM	61814
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	8/9/2021 3:33:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-3

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 12:40:00 PM

Lab ID: 2108304-003

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	400	60		mg/Kg	20	8/11/2021 11:56:47 AM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/9/2021 1:03:52 PM	61822
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/9/2021 1:03:52 PM	61822
Surr: DNOP	88.7	70-130		%Rec	1	8/9/2021 1:03:52 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2021 3:53:00 PM	61814
Surr: BFB	87.8	70-130		%Rec	1	8/9/2021 3:53:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 3:53:00 PM	61814
Toluene	ND	0.048		mg/Kg	1	8/9/2021 3:53:00 PM	61814
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2021 3:53:00 PM	61814
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2021 3:53:00 PM	61814
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	8/9/2021 3:53:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-4

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 12:45:00 PM

Lab ID: 2108304-004

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 12:09:12 PM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/10/2021 1:45:44 PM	61822
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 1:45:44 PM	61822
Surr: DNOP	97.1	70-130		%Rec	1	8/10/2021 1:45:44 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2021 4:13:00 PM	61814
Surr: BFB	87.8	70-130		%Rec	1	8/9/2021 4:13:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/9/2021 4:13:00 PM	61814
Toluene	ND	0.050		mg/Kg	1	8/9/2021 4:13:00 PM	61814
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2021 4:13:00 PM	61814
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2021 4:13:00 PM	61814
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	8/9/2021 4:13:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-5

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 12:50:00 PM

Lab ID: 2108304-005

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 12:46:24 PM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/9/2021 1:28:21 PM	61822
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/9/2021 1:28:21 PM	61822
Surr: DNOP	93.5	70-130		%Rec	1	8/9/2021 1:28:21 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2021 4:33:00 PM	61814
Surr: BFB	89.1	70-130		%Rec	1	8/9/2021 4:33:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/9/2021 4:33:00 PM	61814
Toluene	ND	0.050		mg/Kg	1	8/9/2021 4:33:00 PM	61814
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2021 4:33:00 PM	61814
Xylenes, Total	ND	0.099		mg/Kg	1	8/9/2021 4:33:00 PM	61814
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	8/9/2021 4:33:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-6

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 12:55:00 PM

Lab ID: 2108304-006

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 12:58:49 PM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/9/2021 1:40:37 PM	61822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/9/2021 1:40:37 PM	61822
Surr: DNOP	94.2	70-130		%Rec	1	8/9/2021 1:40:37 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2021 4:54:00 PM	61814
Surr: BFB	88.2	70-130		%Rec	1	8/9/2021 4:54:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/9/2021 4:54:00 PM	61814
Toluene	ND	0.050		mg/Kg	1	8/9/2021 4:54:00 PM	61814
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2021 4:54:00 PM	61814
Xylenes, Total	ND	0.099		mg/Kg	1	8/9/2021 4:54:00 PM	61814
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	8/9/2021 4:54:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-20

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:00:00 PM

Lab ID: 2108304-007

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	8/11/2021 1:11:13 PM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/9/2021 1:52:58 PM	61822
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/9/2021 1:52:58 PM	61822
Surr: DNOP	94.4	70-130		%Rec	1	8/9/2021 1:52:58 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2021 5:14:00 PM	61814
Surr: BFB	86.8	70-130		%Rec	1	8/9/2021 5:14:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 5:14:00 PM	61814
Toluene	ND	0.049		mg/Kg	1	8/9/2021 5:14:00 PM	61814
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 5:14:00 PM	61814
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2021 5:14:00 PM	61814
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	8/9/2021 5:14:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-21

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:05:00 PM

Lab ID: 2108304-008

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 1:23:38 PM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/9/2021 2:05:19 PM	61822
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/9/2021 2:05:19 PM	61822
Surr: DNOP	94.0	70-130		%Rec	1	8/9/2021 2:05:19 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/9/2021 5:34:00 PM	61814
Surr: BFB	86.9	70-130		%Rec	1	8/9/2021 5:34:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	8/9/2021 5:34:00 PM	61814
Toluene	ND	0.046		mg/Kg	1	8/9/2021 5:34:00 PM	61814
Ethylbenzene	ND	0.046		mg/Kg	1	8/9/2021 5:34:00 PM	61814
Xylenes, Total	ND	0.091		mg/Kg	1	8/9/2021 5:34:00 PM	61814
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	8/9/2021 5:34:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-22

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:10:00 PM

Lab ID: 2108304-009

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	8/11/2021 1:36:03 PM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/9/2021 2:17:44 PM	61822
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/9/2021 2:17:44 PM	61822
Surr: DNOP	91.9	70-130		%Rec	1	8/9/2021 2:17:44 PM	61822
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2021 5:54:00 PM	61814
Surr: BFB	93.3	70-130		%Rec	1	8/9/2021 5:54:00 PM	61814
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 5:54:00 PM	61814
Toluene	ND	0.048		mg/Kg	1	8/9/2021 5:54:00 PM	61814
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2021 5:54:00 PM	61814
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2021 5:54:00 PM	61814
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	8/9/2021 5:54:00 PM	61814

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-23

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:15:00 PM

Lab ID: 2108304-010

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 1:48:27 PM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/11/2021 1:28:51 PM	61834
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/11/2021 1:28:51 PM	61834
Surr: DNOP	91.2	70-130		%Rec	1	8/11/2021 1:28:51 PM	61834
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 10:06:00 AM	61828
Surr: BFB	89.1	70-130		%Rec	1	8/10/2021 10:06:00 AM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 7:54:00 PM	61828
Toluene	ND	0.049		mg/Kg	1	8/9/2021 7:54:00 PM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 7:54:00 PM	61828
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2021 7:54:00 PM	61828
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	8/9/2021 7:54:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-7

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:20:00 PM

Lab ID: 2108304-011

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 2:00:51 PM	61900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/11/2021 1:53:09 PM	61834
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/11/2021 1:53:09 PM	61834
Surr: DNOP	90.3	70-130		%Rec	1	8/11/2021 1:53:09 PM	61834
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2021 11:06:00 AM	61828
Surr: BFB	86.0	70-130		%Rec	1	8/10/2021 11:06:00 AM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 8:55:00 PM	61828
Toluene	ND	0.048		mg/Kg	1	8/9/2021 8:55:00 PM	61828
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2021 8:55:00 PM	61828
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2021 8:55:00 PM	61828
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	8/9/2021 8:55:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-8

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:25:00 PM

Lab ID: 2108304-012

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 3:15:17 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	8/11/2021 2:17:35 PM	61834
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	8/11/2021 2:17:35 PM	61834
Surr: DNOP	92.5	70-130		%Rec	1	8/11/2021 2:17:35 PM	61834
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2021 11:26:00 AM	61828
Surr: BFB	91.1	70-130		%Rec	1	8/10/2021 11:26:00 AM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/9/2021 9:54:00 PM	61828
Toluene	ND	0.050		mg/Kg	1	8/9/2021 9:54:00 PM	61828
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2021 9:54:00 PM	61828
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2021 9:54:00 PM	61828
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	8/9/2021 9:54:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-9

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:30:00 PM

Lab ID: 2108304-013

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	270	60		mg/Kg	20	8/11/2021 3:52:30 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/11/2021 2:42:05 PM	61834
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/11/2021 2:42:05 PM	61834
Surr: DNOP	93.4	70-130		%Rec	1	8/11/2021 2:42:05 PM	61834
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2021 11:46:00 AM	61828
Surr: BFB	88.0	70-130		%Rec	1	8/10/2021 11:46:00 AM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/9/2021 10:14:00 PM	61828
Toluene	ND	0.050		mg/Kg	1	8/9/2021 10:14:00 PM	61828
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2021 10:14:00 PM	61828
Xylenes, Total	ND	0.099		mg/Kg	1	8/9/2021 10:14:00 PM	61828
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	8/9/2021 10:14:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-10

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:35:00 PM

Lab ID: 2108304-014

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	310	60		mg/Kg	20	8/11/2021 4:29:43 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	8/11/2021 3:06:32 PM	61834
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	8/11/2021 3:06:32 PM	61834
Surr: DNOP	98.6	70-130		%Rec	1	8/11/2021 3:06:32 PM	61834
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 12:06:00 PM	61828
Surr: BFB	84.8	70-130		%Rec	1	8/10/2021 12:06:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 10:34:00 PM	61828
Toluene	ND	0.049		mg/Kg	1	8/9/2021 10:34:00 PM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 10:34:00 PM	61828
Xylenes, Total	ND	0.098		mg/Kg	1	8/9/2021 10:34:00 PM	61828
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	8/9/2021 10:34:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-11

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:40:00 PM

Lab ID: 2108304-015

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	330	60		mg/Kg	20	8/11/2021 4:42:07 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/11/2021 3:30:48 PM	61834
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/11/2021 3:30:48 PM	61834
Surr: DNOP	95.5	70-130		%Rec	1	8/11/2021 3:30:48 PM	61834
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 12:26:00 PM	61828
Surr: BFB	86.8	70-130		%Rec	1	8/10/2021 12:26:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/9/2021 10:54:00 PM	61828
Toluene	ND	0.049		mg/Kg	1	8/9/2021 10:54:00 PM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 10:54:00 PM	61828
Xylenes, Total	ND	0.099		mg/Kg	1	8/9/2021 10:54:00 PM	61828
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	8/9/2021 10:54:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-12

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:45:00 PM

Lab ID: 2108304-016

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	270	60		mg/Kg	20	8/11/2021 4:54:32 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	20	10		mg/Kg	1	8/11/2021 3:55:17 PM	61834
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/11/2021 3:55:17 PM	61834
Surr: DNOP	96.3	70-130		%Rec	1	8/11/2021 3:55:17 PM	61834
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 12:46:00 PM	61828
Surr: BFB	88.1	70-130		%Rec	1	8/10/2021 12:46:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 11:14:00 PM	61828
Toluene	ND	0.049		mg/Kg	1	8/9/2021 11:14:00 PM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 11:14:00 PM	61828
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2021 11:14:00 PM	61828
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	8/9/2021 11:14:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-13

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:50:00 PM

Lab ID: 2108304-017

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 5:06:56 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/11/2021 4:19:37 PM	61834
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/11/2021 4:19:37 PM	61834
Surr: DNOP	98.8	70-130		%Rec	1	8/11/2021 4:19:37 PM	61834
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 1:05:00 PM	61828
Surr: BFB	87.3	70-130		%Rec	1	8/10/2021 1:05:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/9/2021 11:34:00 PM	61828
Toluene	ND	0.049		mg/Kg	1	8/9/2021 11:34:00 PM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 11:34:00 PM	61828
Xylenes, Total	ND	0.098		mg/Kg	1	8/9/2021 11:34:00 PM	61828
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	8/9/2021 11:34:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-14

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 1:55:00 PM

Lab ID: 2108304-018

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	8/11/2021 5:44:09 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/10/2021 3:37:36 PM	61835
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2021 3:37:36 PM	61835
Surr: DNOP	102	70-130		%Rec	1	8/10/2021 3:37:36 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 1:25:00 PM	61828
Surr: BFB	84.8	70-130		%Rec	1	8/10/2021 1:25:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/9/2021 11:54:00 PM	61828
Toluene	ND	0.049		mg/Kg	1	8/9/2021 11:54:00 PM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 11:54:00 PM	61828
Xylenes, Total	ND	0.098		mg/Kg	1	8/9/2021 11:54:00 PM	61828
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	8/9/2021 11:54:00 PM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-15

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:00:00 PM

Lab ID: 2108304-019

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	8/11/2021 5:56:34 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/10/2021 4:48:44 PM	61835
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2021 4:48:44 PM	61835
Surr: DNOP	92.5	70-130		%Rec	1	8/10/2021 4:48:44 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2021 1:45:00 PM	61828
Surr: BFB	85.9	70-130		%Rec	1	8/10/2021 1:45:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/10/2021 12:14:00 AM	61828
Toluene	ND	0.048		mg/Kg	1	8/10/2021 12:14:00 AM	61828
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2021 12:14:00 AM	61828
Xylenes, Total	ND	0.097		mg/Kg	1	8/10/2021 12:14:00 AM	61828
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	8/10/2021 12:14:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-16

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:05:00 PM

Lab ID: 2108304-020

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/11/2021 6:08:58 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/10/2021 5:12:19 PM	61835
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2021 5:12:19 PM	61835
Surr: DNOP	94.5	70-130		%Rec	1	8/10/2021 5:12:19 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2021 2:45:00 PM	61828
Surr: BFB	92.2	70-130		%Rec	1	8/10/2021 2:45:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/10/2021 1:14:00 AM	61828
Toluene	ND	0.050		mg/Kg	1	8/10/2021 1:14:00 AM	61828
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2021 1:14:00 AM	61828
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2021 1:14:00 AM	61828
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	8/10/2021 1:14:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-17

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:10:00 PM

Lab ID: 2108304-021

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	240	60		mg/Kg	20	8/11/2021 6:21:22 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	86	9.7		mg/Kg	1	8/10/2021 5:35:55 PM	61835
Motor Oil Range Organics (MRO)	51	48		mg/Kg	1	8/10/2021 5:35:55 PM	61835
Surr: DNOP	95.1	70-130		%Rec	1	8/10/2021 5:35:55 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 3:05:00 PM	61828
Surr: BFB	87.5	70-130		%Rec	1	8/10/2021 3:05:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/10/2021 1:34:00 AM	61828
Toluene	ND	0.049		mg/Kg	1	8/10/2021 1:34:00 AM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2021 1:34:00 AM	61828
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2021 1:34:00 AM	61828
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	8/10/2021 1:34:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-18

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:15:00 PM

Lab ID: 2108304-022

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	210	60		mg/Kg	20	8/11/2021 6:33:46 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/10/2021 5:59:37 PM	61835
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 5:59:37 PM	61835
Surr: DNOP	93.2	70-130		%Rec	1	8/10/2021 5:59:37 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 3:25:00 PM	61828
Surr: BFB	84.4	70-130		%Rec	1	8/10/2021 3:25:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/10/2021 1:54:00 AM	61828
Toluene	ND	0.049		mg/Kg	1	8/10/2021 1:54:00 AM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2021 1:54:00 AM	61828
Xylenes, Total	ND	0.097		mg/Kg	1	8/10/2021 1:54:00 AM	61828
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	8/10/2021 1:54:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-19

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:20:00 PM

Lab ID: 2108304-023

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	120	60		mg/Kg	20	8/11/2021 6:46:10 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	110	9.5		mg/Kg	1	8/10/2021 6:23:19 PM	61835
Motor Oil Range Organics (MRO)	77	47		mg/Kg	1	8/10/2021 6:23:19 PM	61835
Surr: DNOP	97.0	70-130		%Rec	1	8/10/2021 6:23:19 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2021 3:45:00 PM	61828
Surr: BFB	88.3	70-130		%Rec	1	8/10/2021 3:45:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/10/2021 2:14:00 AM	61828
Toluene	ND	0.050		mg/Kg	1	8/10/2021 2:14:00 AM	61828
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2021 2:14:00 AM	61828
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2021 2:14:00 AM	61828
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	8/10/2021 2:14:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-1

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:25:00 PM

Lab ID: 2108304-024

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	500	60		mg/Kg	20	8/11/2021 6:58:35 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/10/2021 6:46:59 PM	61835
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2021 6:46:59 PM	61835
Surr: DNOP	95.8	70-130		%Rec	1	8/10/2021 6:46:59 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 4:05:00 PM	61828
Surr: BFB	86.4	70-130		%Rec	1	8/10/2021 4:05:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/10/2021 2:34:00 AM	61828
Toluene	ND	0.049		mg/Kg	1	8/10/2021 2:34:00 AM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2021 2:34:00 AM	61828
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2021 2:34:00 AM	61828
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	8/10/2021 2:34:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-2

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:30:00 PM

Lab ID: 2108304-025

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	130	60		mg/Kg	20	8/11/2021 7:10:59 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/10/2021 7:10:37 PM	61835
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 7:10:37 PM	61835
Surr: DNOP	97.7	70-130		%Rec	1	8/10/2021 7:10:37 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2021 4:25:00 PM	61828
Surr: BFB	87.3	70-130		%Rec	1	8/10/2021 4:25:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/10/2021 2:54:00 AM	61828
Toluene	ND	0.048		mg/Kg	1	8/10/2021 2:54:00 AM	61828
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2021 2:54:00 AM	61828
Xylenes, Total	ND	0.096		mg/Kg	1	8/10/2021 2:54:00 AM	61828
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	8/10/2021 2:54:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-3

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:35:00 PM

Lab ID: 2108304-026

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	64	59		mg/Kg	20	8/11/2021 7:23:23 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	24	9.4		mg/Kg	1	8/10/2021 7:34:16 PM	61835
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/10/2021 7:34:16 PM	61835
Surr: DNOP	99.2	70-130		%Rec	1	8/10/2021 7:34:16 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 4:45:00 PM	61828
Surr: BFB	87.0	70-130		%Rec	1	8/10/2021 4:45:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/10/2021 3:14:00 AM	61828
Toluene	ND	0.049		mg/Kg	1	8/10/2021 3:14:00 AM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2021 3:14:00 AM	61828
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2021 3:14:00 AM	61828
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	8/10/2021 3:14:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-4

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:40:00 PM

Lab ID: 2108304-027

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	450	60		mg/Kg	20	8/11/2021 7:35:48 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/10/2021 7:57:57 PM	61835
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2021 7:57:57 PM	61835
Surr: DNOP	97.7	70-130		%Rec	1	8/10/2021 7:57:57 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 5:06:00 PM	61828
Surr: BFB	88.1	70-130		%Rec	1	8/10/2021 5:06:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/10/2021 3:34:00 AM	61828
Toluene	ND	0.049		mg/Kg	1	8/10/2021 3:34:00 AM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2021 3:34:00 AM	61828
Xylenes, Total	ND	0.098		mg/Kg	1	8/10/2021 3:34:00 AM	61828
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	8/10/2021 3:34:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-5

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:45:00 PM

Lab ID: 2108304-028

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	66	60		mg/Kg	20	8/11/2021 8:13:01 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	210	9.8		mg/Kg	1	8/10/2021 8:21:52 PM	61835
Motor Oil Range Organics (MRO)	130	49		mg/Kg	1	8/10/2021 8:21:52 PM	61835
Surr: DNOP	102	70-130		%Rec	1	8/10/2021 8:21:52 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 5:26:00 PM	61828
Surr: BFB	90.0	70-130		%Rec	1	8/10/2021 5:26:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/10/2021 3:54:00 AM	61828
Toluene	ND	0.049		mg/Kg	1	8/10/2021 3:54:00 AM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2021 3:54:00 AM	61828
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2021 3:54:00 AM	61828
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	8/10/2021 3:54:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-6

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 2:50:00 PM

Lab ID: 2108304-029

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	150	60		mg/Kg	20	8/11/2021 8:25:26 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	50	9.3		mg/Kg	1	8/10/2021 8:45:55 PM	61835
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/10/2021 8:45:55 PM	61835
Surr: DNOP	96.7	70-130		%Rec	1	8/10/2021 8:45:55 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2021 5:46:00 PM	61828
Surr: BFB	89.4	70-130		%Rec	1	8/10/2021 5:46:00 PM	61828
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/10/2021 4:13:00 AM	61828
Toluene	ND	0.049		mg/Kg	1	8/10/2021 4:13:00 AM	61828
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2021 4:13:00 AM	61828
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2021 4:13:00 AM	61828
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	8/10/2021 4:13:00 AM	61828

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-7

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 3:10:00 PM

Lab ID: 2108304-030

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	200	60		mg/Kg	20	8/11/2021 8:37:50 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/10/2021 9:09:58 PM	61835
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 9:09:58 PM	61835
Surr: DNOP	98.6	70-130		%Rec	1	8/10/2021 9:09:58 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2021 5:38:04 PM	61829
Surr: BFB	107	70-130		%Rec	1	8/9/2021 5:38:04 PM	61829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/9/2021 5:38:04 PM	61829
Toluene	ND	0.049		mg/Kg	1	8/9/2021 5:38:04 PM	61829
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 5:38:04 PM	61829
Xylenes, Total	ND	0.098		mg/Kg	1	8/9/2021 5:38:04 PM	61829
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	8/9/2021 5:38:04 PM	61829

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 3:15:00 PM

Lab ID: 2108304-031

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	210	60		mg/Kg	20	8/11/2021 8:50:14 PM	61908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	82	9.5		mg/Kg	1	8/10/2021 9:33:57 PM	61835
Motor Oil Range Organics (MRO)	69	47		mg/Kg	1	8/10/2021 9:33:57 PM	61835
Surr: DNOP	100	70-130		%Rec	1	8/10/2021 9:33:57 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2021 6:49:37 PM	61829
Surr: BFB	105	70-130		%Rec	1	8/9/2021 6:49:37 PM	61829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/9/2021 6:49:37 PM	61829
Toluene	ND	0.049		mg/Kg	1	8/9/2021 6:49:37 PM	61829
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 6:49:37 PM	61829
Xylenes, Total	ND	0.098		mg/Kg	1	8/9/2021 6:49:37 PM	61829
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	8/9/2021 6:49:37 PM	61829

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-9

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 3:20:00 PM

Lab ID: 2108304-032

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	430	60		mg/Kg	20	8/11/2021 9:27:26 PM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/10/2021 9:57:58 PM	61835
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 9:57:58 PM	61835
Surr: DNOP	101	70-130		%Rec	1	8/10/2021 9:57:58 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2021 8:00:46 PM	61829
Surr: BFB	105	70-130		%Rec	1	8/9/2021 8:00:46 PM	61829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/9/2021 8:00:46 PM	61829
Toluene	ND	0.049		mg/Kg	1	8/9/2021 8:00:46 PM	61829
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 8:00:46 PM	61829
Xylenes, Total	ND	0.098		mg/Kg	1	8/9/2021 8:00:46 PM	61829
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	8/9/2021 8:00:46 PM	61829

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108304

Date Reported: 8/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-10

Project: Zingaro ANG Federal Battery

Collection Date: 8/4/2021 3:30:00 PM

Lab ID: 2108304-033

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	440	60		mg/Kg	20	8/11/2021 9:39:51 PM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	35	9.6		mg/Kg	1	8/10/2021 10:22:03 PM	61835
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 10:22:03 PM	61835
Surr: DNOP	101	70-130		%Rec	1	8/10/2021 10:22:03 PM	61835
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2021 8:24:27 PM	61829
Surr: BFB	102	70-130		%Rec	1	8/9/2021 8:24:27 PM	61829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/9/2021 8:24:27 PM	61829
Toluene	ND	0.049		mg/Kg	1	8/9/2021 8:24:27 PM	61829
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2021 8:24:27 PM	61829
Xylenes, Total	ND	0.099		mg/Kg	1	8/9/2021 8:24:27 PM	61829
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/9/2021 8:24:27 PM	61829

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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#: 2108304

13-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: MB-61900	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61900	RunNo: 80443								
Prep Date: 8/11/2021	Analysis Date: 8/11/2021	SeqNo: 2836508 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61900	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61900	RunNo: 80443								
Prep Date: 8/11/2021	Analysis Date: 8/11/2021	SeqNo: 2836509 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-61908	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61908	RunNo: 80443								
Prep Date: 8/11/2021	Analysis Date: 8/11/2021	SeqNo: 2836539 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61908	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61908	RunNo: 80443								
Prep Date: 8/11/2021	Analysis Date: 8/11/2021	SeqNo: 2836540 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Sample ID: MB-61909	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61909	RunNo: 80443								
Prep Date: 8/11/2021	Analysis Date: 8/11/2021	SeqNo: 2836571 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61909	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61909	RunNo: 80443								
Prep Date: 8/11/2021	Analysis Date: 8/11/2021	SeqNo: 2836572 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#: 2108304

13-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: MB-61822	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61822	RunNo: 80403								
Prep Date: 8/6/2021	Analysis Date: 8/9/2021	SeqNo: 2833764 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		83.5	70	130			

Sample ID: LCS-61822	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61822	RunNo: 80403								
Prep Date: 8/6/2021	Analysis Date: 8/9/2021	SeqNo: 2833765 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.9	68.9	141			
Surr: DNOP	4.0		5.000		80.0	70	130			

Sample ID: MB-61835	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61835	RunNo: 80451								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2835861 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		116	70	130			

Sample ID: LCS-61835	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61835	RunNo: 80451								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2835863 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.6	68.9	141			
Surr: DNOP	4.8		5.000		96.8	70	130			

Sample ID: 2108304-018AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-14	Batch ID: 61835	RunNo: 80451								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2835865 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.7	48.36	0	83.8	15	184			
Surr: DNOP	4.7		4.836		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

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

WO#: 2108304

13-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: 2108304-018AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-14	Batch ID: 61835	RunNo: 80451								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2835867 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.6	48.12	0	85.4	15	184	1.43	23.9	
Surr: DNOP	4.7		4.812		98.6	70	130	0	0	

Sample ID: MB-61856	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61856	RunNo: 80429								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2836040 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		129	70	130			

Sample ID: LCS-61856	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61856	RunNo: 80429								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2836041 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: LCS-61834	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61834	RunNo: 80463								
Prep Date: 8/9/2021	Analysis Date: 8/11/2021	SeqNo: 2836329 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	10	50.00	0	130	68.9	141			
Surr: DNOP	6.3		5.000		127	70	130			

Sample ID: MB-61834	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61834	RunNo: 80463								
Prep Date: 8/9/2021	Analysis Date: 8/11/2021	SeqNo: 2836332 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		110	70	130			

Qualifiers:

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

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

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

WO#: 2108304

13-Aug-21

Client: GHD Midland
Project: Zingaro ANG Federal Battery

Sample ID: mb-61829	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61829	RunNo: 80405								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2833801 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-61829	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61829	RunNo: 80405								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2833802 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1200		1000		115	70	130			

Sample ID: 2108304-030ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-7	Batch ID: 61829	RunNo: 80405								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2833805 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.11	0	103	61.3	114			
Surr: BFB	1200		964.3		119	70	130			

Sample ID: 2108304-030amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-7	Batch ID: 61829	RunNo: 80405								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2833806 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.78	0	105	61.3	114	4.27	20	
Surr: BFB	1200		991.1		118	70	130	0	0	

Sample ID: mb-61814	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61814	RunNo: 80409								
Prep Date: 8/6/2021	Analysis Date: 8/9/2021	SeqNo: 2834069 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		89.2	70	130			

Sample ID: lcs-61814	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61814	RunNo: 80409								
Prep Date: 8/6/2021	Analysis Date: 8/9/2021	SeqNo: 2834070 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#: 2108304

13-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: ics-61814	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61814				RunNo: 80409					
Prep Date: 8/6/2021	Analysis Date: 8/9/2021				SeqNo: 2834070	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	1000		1000		102	70	130			

Sample ID: mb-61828	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61828				RunNo: 80440					
Prep Date: 8/7/2021	Analysis Date: 8/10/2021				SeqNo: 2835419	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.2	70	130			

Sample ID: mb-61849	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61849				RunNo: 80440					
Prep Date: 8/9/2021	Analysis Date: 8/10/2021				SeqNo: 2835420	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	850		1000		85.0	70	130			

Sample ID: ics-61828	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61828				RunNo: 80440					
Prep Date: 8/7/2021	Analysis Date: 8/10/2021				SeqNo: 2835421	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	98.9	78.6	131			
Surr: BFB	1000		1000		101	70	130			

Sample ID: ics-61849	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61849				RunNo: 80440					
Prep Date: 8/9/2021	Analysis Date: 8/10/2021				SeqNo: 2835422	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		98.6	70	130			

Sample ID: 2108304-010ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: SW-23	Batch ID: 61828				RunNo: 80440					
Prep Date: 8/7/2021	Analysis Date: 8/10/2021				SeqNo: 2835423	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.85	0	94.7	61.3	114			
Surr: BFB	1000		994.0		102	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108304

13-Aug-21

Client: GHD Midland

Project: Zingaro ANG Federal Battery

Sample ID: 2108304-010amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-23		Batch ID: 61828		RunNo: 80440						
Prep Date: 8/7/2021		Analysis Date: 8/10/2021		SeqNo: 2835425		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.70	0	100	61.3	114	4.95	20	
Surr: BFB	1000		988.1		104	70	130	0	0	

Qualifiers:

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

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

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

WO#: 2108304

13-Aug-21

Client: GHD Midland
Project: Zingaro ANG Federal Battery

Sample ID: mb-61829	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61829	RunNo: 80405								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2833842 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: LCS-61829	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61829	RunNo: 80405								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2833843 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	0.88	0.050	1.000	0	88.2	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: 2108304-031ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-8	Batch ID: 61829	RunNo: 80405								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2833847 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	0.9881	0	80.2	80	120			
Toluene	0.82	0.049	0.9881	0	83.2	80	120			
Ethylbenzene	0.83	0.049	0.9881	0	84.2	80	120			
Xylenes, Total	2.5	0.099	2.964	0	85.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		0.9881		107	70	130			

Sample ID: 2108304-031amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-8	Batch ID: 61829	RunNo: 80405								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2833848 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9766	0	81.7	80	120	0.699	20	
Toluene	0.83	0.049	0.9766	0	84.8	80	120	0.655	20	
Ethylbenzene	0.85	0.049	0.9766	0	86.6	80	120	1.56	20	
Xylenes, Total	2.5	0.098	2.930	0	86.3	80	120	0.265	20	
Surr: 4-Bromofluorobenzene	1.1		0.9766		108	70	130	0	0	

Qualifiers:

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

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

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

WO#: 2108304

13-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: mb-61814	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61814	RunNo: 80409								
Prep Date: 8/6/2021	Analysis Date: 8/9/2021	SeqNo: 2834094 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		87.1	70	130			

Sample ID: mb-61828	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61828	RunNo: 80409								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2834095 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	70	130			

Sample ID: lcs-61814	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61814	RunNo: 80409								
Prep Date: 8/6/2021	Analysis Date: 8/9/2021	SeqNo: 2834096 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	90.8	80	120			
Toluene	0.93	0.050	1.000	0	93.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	70	130			

Sample ID: lcs-61828	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61828	RunNo: 80409								
Prep Date: 8/7/2021	Analysis Date: 8/9/2021	SeqNo: 2834097 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	80	120			
Toluene	0.90	0.050	1.000	0	89.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.4	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.1	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#: 2108304

13-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: 2108304-011ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: SW-7	Batch ID: 61828		RunNo: 80409							
Prep Date: 8/7/2021	Analysis Date: 8/9/2021		SeqNo: 2834099		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.024	0.9775	0	83.2	80	120			
Toluene	0.85	0.049	0.9775	0	87.1	80	120			
Ethylbenzene	0.88	0.049	0.9775	0	89.7	80	120			
Xylenes, Total	2.6	0.098	2.933	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	0.83		0.9775		85.3	70	130			

Sample ID: 2108304-011amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: SW-7	Batch ID: 61828		RunNo: 80409							
Prep Date: 8/7/2021	Analysis Date: 8/9/2021		SeqNo: 2834101		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9911	0	86.9	80	120	5.80	20	
Toluene	0.91	0.050	0.9911	0	91.6	80	120	6.38	20	
Ethylbenzene	0.94	0.050	0.9911	0	95.1	80	120	7.23	20	
Xylenes, Total	2.8	0.099	2.973	0	95.7	80	120	7.12	20	
Surr: 4-Bromofluorobenzene	0.83		0.9911		83.4	70	130	0	0	

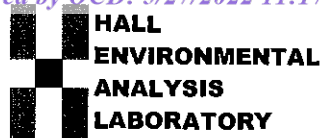
Sample ID: mb-61849	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 61849		RunNo: 80440							
Prep Date: 8/9/2021	Analysis Date: 8/10/2021		SeqNo: 2835564		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		84.4	70	130			

Sample ID: lcs-61849	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 61849		RunNo: 80440							
Prep Date: 8/9/2021	Analysis Date: 8/10/2021		SeqNo: 2835565		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	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: 2108304

RcptNo: 1

Received By: Cheyenne Cason

8/6/2021 7:58:00 AM

Completed By: Isaiah Ortiz

8/6/2021 9:07:53 AM

Reviewed By:

SPA 8.6.21

Chad

I-04

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:

KPH 8/6/21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp. °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Not Present			

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Zinsgarre ANG Federal Bldg

Project #

11228201

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Zach Comino

On Ice

☒ Yes ☐ No

of Coolers

Cooler Temp (including of)

31

Container Type and #

Jew

Preservative Type

HEAL No

2108304

Date Time Matrix Sample Name

1430 S BH-2

1435 BH-3

1440 BH-4

1445 BH-5

1450 BH-6

1510 BH-7

1515 BH-8

1520 BH-9

1530 BH-10

Date: 05/27/2022

Time: 0800

Relinquished by: Zach Comino

Date: 05/27/2022

Time: 0800

Relinquished by: Zach Comino

Received by: Via:

Date Time

05/27/2022 0800

Received by: Via:

Date Time

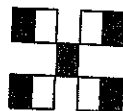
05/27/2022 0758

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.

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.

3A3

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

RTX / MTBE / TMBs (6021)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33	33



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

August 17, 2021

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

RE: Zingaro ANG Federal Battery

OrderNo.: 2108367

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 18 sample(s) on 8/7/2021 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-11

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 10:25:00 AM

Lab ID: 2108367-001

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/13/2021 2:41:36 AM	61936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	51	9.6		mg/Kg	1	8/10/2021 2:44:22 PM	61861
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 2:44:22 PM	61861
Surr: DNOP	83.2	70-130		%Rec	1	8/10/2021 2:44:22 PM	61861
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/11/2021 10:16:00 AM	61859
Surr: BFB	92.9	70-130		%Rec	5	8/11/2021 10:16:00 AM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/11/2021 10:16:00 AM	61859
Toluene	ND	0.24		mg/Kg	5	8/11/2021 10:16:00 AM	61859
Ethylbenzene	ND	0.24		mg/Kg	5	8/11/2021 10:16:00 AM	61859
Xylenes, Total	ND	0.49		mg/Kg	5	8/11/2021 10:16:00 AM	61859
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	5	8/11/2021 10:16:00 AM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-12

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 10:30:00 AM

Lab ID: 2108367-002

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	170	60		mg/Kg	20	8/13/2021 3:18:38 AM	61936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/10/2021 2:55:51 PM	61861
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2021 2:55:51 PM	61861
Surr: DNOP	94.9	70-130		%Rec	1	8/10/2021 2:55:51 PM	61861
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/11/2021 11:17:00 AM	61859
Surr: BFB	94.3	70-130		%Rec	5	8/11/2021 11:17:00 AM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/11/2021 11:17:00 AM	61859
Toluene	ND	0.24		mg/Kg	5	8/11/2021 11:17:00 AM	61859
Ethylbenzene	ND	0.24		mg/Kg	5	8/11/2021 11:17:00 AM	61859
Xylenes, Total	ND	0.47		mg/Kg	5	8/11/2021 11:17:00 AM	61859
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	5	8/11/2021 11:17:00 AM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-13

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 10:35:00 AM

Lab ID: 2108367-003

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/13/2021 3:30:57 AM	61936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/10/2021 3:07:24 PM	61861
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2021 3:07:24 PM	61861
Surr: DNOP	109	70-130		%Rec	1	8/10/2021 3:07:24 PM	61861
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/11/2021 12:16:00 PM	61859
Surr: BFB	95.0	70-130		%Rec	5	8/11/2021 12:16:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/11/2021 12:16:00 PM	61859
Toluene	ND	0.24		mg/Kg	5	8/11/2021 12:16:00 PM	61859
Ethylbenzene	ND	0.24		mg/Kg	5	8/11/2021 12:16:00 PM	61859
Xylenes, Total	ND	0.48		mg/Kg	5	8/11/2021 12:16:00 PM	61859
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	5	8/11/2021 12:16:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-14

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 10:40:00 AM

Lab ID: 2108367-004

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/13/2021 4:08:01 AM	61936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/10/2021 3:19:11 PM	61861
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 3:19:11 PM	61861
Surr: DNOP	124	70-130		%Rec	1	8/10/2021 3:19:11 PM	61861
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	8/11/2021 12:36:00 PM	61859
Surr: BFB	90.5	70-130		%Rec	5	8/11/2021 12:36:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.11		mg/Kg	5	8/11/2021 12:36:00 PM	61859
Toluene	ND	0.23		mg/Kg	5	8/11/2021 12:36:00 PM	61859
Ethylbenzene	ND	0.23		mg/Kg	5	8/11/2021 12:36:00 PM	61859
Xylenes, Total	ND	0.46		mg/Kg	5	8/11/2021 12:36:00 PM	61859
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	5	8/11/2021 12:36:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-15

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 10:45:00 AM

Lab ID: 2108367-005

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/13/2021 8:31:46 AM	61952
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/10/2021 3:30:48 PM	61861
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2021 3:30:48 PM	61861
Surr: DNOP	119	70-130		%Rec	1	8/10/2021 3:30:48 PM	61861
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/11/2021 12:56:00 PM	61859
Surr: BFB	91.1	70-130		%Rec	5	8/11/2021 12:56:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/11/2021 12:56:00 PM	61859
Toluene	ND	0.24		mg/Kg	5	8/11/2021 12:56:00 PM	61859
Ethylbenzene	ND	0.24		mg/Kg	5	8/11/2021 12:56:00 PM	61859
Xylenes, Total	ND	0.48		mg/Kg	5	8/11/2021 12:56:00 PM	61859
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	5	8/11/2021 12:56:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-16

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 10:50:00 AM

Lab ID: 2108367-006

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	130	60		mg/Kg	20	8/13/2021 8:44:07 AM	61952
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	16	9.8		mg/Kg	1	8/10/2021 3:42:38 PM	61861
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2021 3:42:38 PM	61861
Surr: DNOP	99.8	70-130		%Rec	1	8/10/2021 3:42:38 PM	61861
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/11/2021 1:16:00 PM	61859
Surr: BFB	88.0	70-130		%Rec	1	8/11/2021 1:16:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	8/11/2021 1:16:00 PM	61859
Toluene	ND	0.046		mg/Kg	1	8/11/2021 1:16:00 PM	61859
Ethylbenzene	ND	0.046		mg/Kg	1	8/11/2021 1:16:00 PM	61859
Xylenes, Total	ND	0.092		mg/Kg	1	8/11/2021 1:16:00 PM	61859
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	8/11/2021 1:16:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-17

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 10:55:00 AM

Lab ID: 2108367-007

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/13/2021 8:56:29 AM	61952
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	78	9.7		mg/Kg	1	8/12/2021 2:57:31 PM	61913
Motor Oil Range Organics (MRO)	65	48		mg/Kg	1	8/12/2021 2:57:31 PM	61913
Surr: DNOP	75.3	70-130		%Rec	1	8/12/2021 2:57:31 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/11/2021 1:36:00 PM	61859
Surr: BFB	88.7	70-130		%Rec	1	8/11/2021 1:36:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/11/2021 1:36:00 PM	61859
Toluene	ND	0.047		mg/Kg	1	8/11/2021 1:36:00 PM	61859
Ethylbenzene	ND	0.047		mg/Kg	1	8/11/2021 1:36:00 PM	61859
Xylenes, Total	ND	0.094		mg/Kg	1	8/11/2021 1:36:00 PM	61859
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	8/11/2021 1:36:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-18

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 12:30:00 PM

Lab ID: 2108367-008

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	90	60		mg/Kg	20	8/13/2021 9:08:49 AM	61952
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/12/2021 3:09:28 PM	61913
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/12/2021 3:09:28 PM	61913
Surr: DNOP	106	70-130		%Rec	1	8/12/2021 3:09:28 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/11/2021 1:56:00 PM	61859
Surr: BFB	88.9	70-130		%Rec	1	8/11/2021 1:56:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	8/11/2021 1:56:00 PM	61859
Toluene	ND	0.046		mg/Kg	1	8/11/2021 1:56:00 PM	61859
Ethylbenzene	ND	0.046		mg/Kg	1	8/11/2021 1:56:00 PM	61859
Xylenes, Total	ND	0.091		mg/Kg	1	8/11/2021 1:56:00 PM	61859
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	8/11/2021 1:56:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-19

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 12:35:00 PM

Lab ID: 2108367-009

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	770	59		mg/Kg	20	8/13/2021 9:21:10 AM	61952
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/12/2021 3:21:31 PM	61913
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/12/2021 3:21:31 PM	61913
Surr: DNOP	103	70-130		%Rec	1	8/12/2021 3:21:31 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/11/2021 2:16:00 PM	61859
Surr: BFB	87.4	70-130		%Rec	1	8/11/2021 2:16:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/11/2021 2:16:00 PM	61859
Toluene	ND	0.047		mg/Kg	1	8/11/2021 2:16:00 PM	61859
Ethylbenzene	ND	0.047		mg/Kg	1	8/11/2021 2:16:00 PM	61859
Xylenes, Total	ND	0.094		mg/Kg	1	8/11/2021 2:16:00 PM	61859
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	8/11/2021 2:16:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-20

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 1:20:00 PM

Lab ID: 2108367-010

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	59		mg/Kg	20	8/13/2021 9:33:31 AM	61952
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/12/2021 2:30:05 PM	61913
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/12/2021 2:30:05 PM	61913
Surr: DNOP	96.1	70-130		%Rec	1	8/12/2021 2:30:05 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/11/2021 2:36:00 PM	61859
Surr: BFB	88.8	70-130		%Rec	1	8/11/2021 2:36:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/11/2021 2:36:00 PM	61859
Toluene	ND	0.047		mg/Kg	1	8/11/2021 2:36:00 PM	61859
Ethylbenzene	ND	0.047		mg/Kg	1	8/11/2021 2:36:00 PM	61859
Xylenes, Total	ND	0.095		mg/Kg	1	8/11/2021 2:36:00 PM	61859
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	8/11/2021 2:36:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-21

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 1:25:00 PM

Lab ID: 2108367-011

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/13/2021 9:45:52 AM	61952
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/12/2021 2:53:48 PM	61913
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/12/2021 2:53:48 PM	61913
Surr: DNOP	97.6	70-130		%Rec	1	8/12/2021 2:53:48 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/11/2021 3:36:00 PM	61859
Surr: BFB	88.2	70-130		%Rec	1	8/11/2021 3:36:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/11/2021 3:36:00 PM	61859
Toluene	ND	0.050		mg/Kg	1	8/11/2021 3:36:00 PM	61859
Ethylbenzene	ND	0.050		mg/Kg	1	8/11/2021 3:36:00 PM	61859
Xylenes, Total	ND	0.10		mg/Kg	1	8/11/2021 3:36:00 PM	61859
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	8/11/2021 3:36:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-22

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 1:30:00 PM

Lab ID: 2108367-012

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/13/2021 10:19:20 PM	61964
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	14	9.9		mg/Kg	1	8/12/2021 3:17:33 PM	61913
Motor Oil Range Organics (MRO)	55	49		mg/Kg	1	8/12/2021 3:17:33 PM	61913
Surr: DNOP	98.2	70-130		%Rec	1	8/12/2021 3:17:33 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/11/2021 3:56:00 PM	61859
Surr: BFB	87.6	70-130		%Rec	1	8/11/2021 3:56:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/11/2021 3:56:00 PM	61859
Toluene	ND	0.049		mg/Kg	1	8/11/2021 3:56:00 PM	61859
Ethylbenzene	ND	0.049		mg/Kg	1	8/11/2021 3:56:00 PM	61859
Xylenes, Total	ND	0.099		mg/Kg	1	8/11/2021 3:56:00 PM	61859
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	8/11/2021 3:56:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-23

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 1:45:00 PM

Lab ID: 2108367-013

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/13/2021 10:31:40 PM	61964
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/12/2021 3:41:15 PM	61913
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/12/2021 3:41:15 PM	61913
Surr: DNOP	85.8	70-130		%Rec	1	8/12/2021 3:41:15 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/11/2021 4:16:00 PM	61859
Surr: BFB	87.9	70-130		%Rec	1	8/11/2021 4:16:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/11/2021 4:16:00 PM	61859
Toluene	ND	0.048		mg/Kg	1	8/11/2021 4:16:00 PM	61859
Ethylbenzene	ND	0.048		mg/Kg	1	8/11/2021 4:16:00 PM	61859
Xylenes, Total	ND	0.097		mg/Kg	1	8/11/2021 4:16:00 PM	61859
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	8/11/2021 4:16:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-24

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 1:50:00 PM

Lab ID: 2108367-014

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/13/2021 10:44:01 PM	61964
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/12/2021 4:04:55 PM	61913
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/12/2021 4:04:55 PM	61913
Surr: DNOP	101	70-130		%Rec	1	8/12/2021 4:04:55 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/11/2021 4:36:00 PM	61859
Surr: BFB	89.6	70-130		%Rec	1	8/11/2021 4:36:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/11/2021 4:36:00 PM	61859
Toluene	ND	0.049		mg/Kg	1	8/11/2021 4:36:00 PM	61859
Ethylbenzene	ND	0.049		mg/Kg	1	8/11/2021 4:36:00 PM	61859
Xylenes, Total	ND	0.097		mg/Kg	1	8/11/2021 4:36:00 PM	61859
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	8/11/2021 4:36:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-25

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 2:00:00 PM

Lab ID: 2108367-015

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/13/2021 10:56:22 PM	61964
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/12/2021 4:28:37 PM	61913
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/12/2021 4:28:37 PM	61913
Surr: DNOP	93.5	70-130		%Rec	1	8/12/2021 4:28:37 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/11/2021 4:56:00 PM	61859
Surr: BFB	90.3	70-130		%Rec	1	8/11/2021 4:56:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	8/11/2021 4:56:00 PM	61859
Toluene	ND	0.046		mg/Kg	1	8/11/2021 4:56:00 PM	61859
Ethylbenzene	ND	0.046		mg/Kg	1	8/11/2021 4:56:00 PM	61859
Xylenes, Total	ND	0.093		mg/Kg	1	8/11/2021 4:56:00 PM	61859
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	8/11/2021 4:56:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-26

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 2:10:00 PM

Lab ID: 2108367-016

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/13/2021 11:08:43 PM	61964
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/12/2021 4:52:17 PM	61913
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/12/2021 4:52:17 PM	61913
Surr: DNOP	86.2	70-130		%Rec	1	8/12/2021 4:52:17 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/11/2021 5:17:00 PM	61859
Surr: BFB	91.8	70-130		%Rec	1	8/11/2021 5:17:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	8/11/2021 5:17:00 PM	61859
Toluene	ND	0.046		mg/Kg	1	8/11/2021 5:17:00 PM	61859
Ethylbenzene	ND	0.046		mg/Kg	1	8/11/2021 5:17:00 PM	61859
Xylenes, Total	ND	0.092		mg/Kg	1	8/11/2021 5:17:00 PM	61859
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	8/11/2021 5:17:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-24

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 2:30:00 PM

Lab ID: 2108367-017

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	64	60		mg/Kg	20	8/13/2021 11:21:04 PM	61964
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/12/2021 5:16:00 PM	61913
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/12/2021 5:16:00 PM	61913
Surr: DNOP	116	70-130		%Rec	1	8/12/2021 5:16:00 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/11/2021 5:37:00 PM	61859
Surr: BFB	87.6	70-130		%Rec	1	8/11/2021 5:37:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/11/2021 5:37:00 PM	61859
Toluene	ND	0.049		mg/Kg	1	8/11/2021 5:37:00 PM	61859
Ethylbenzene	ND	0.049		mg/Kg	1	8/11/2021 5:37:00 PM	61859
Xylenes, Total	ND	0.098		mg/Kg	1	8/11/2021 5:37:00 PM	61859
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	8/11/2021 5:37:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108367

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-25

Project: Zingaro ANG Federal Battery

Collection Date: 8/5/2021 2:40:00 PM

Lab ID: 2108367-018

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	100	60		mg/Kg	20	8/13/2021 11:33:24 PM	61964
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/12/2021 5:39:39 PM	61913
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/12/2021 5:39:39 PM	61913
Surr: DNOP	130	70-130		%Rec	1	8/12/2021 5:39:39 PM	61913
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/11/2021 5:57:00 PM	61859
Surr: BFB	85.5	70-130		%Rec	1	8/11/2021 5:57:00 PM	61859
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/11/2021 5:57:00 PM	61859
Toluene	ND	0.049		mg/Kg	1	8/11/2021 5:57:00 PM	61859
Ethylbenzene	ND	0.049		mg/Kg	1	8/11/2021 5:57:00 PM	61859
Xylenes, Total	ND	0.097		mg/Kg	1	8/11/2021 5:57:00 PM	61859
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	8/11/2021 5:57:00 PM	61859

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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#: 2108367

17-Aug-21

Client: GHD Midland
Project: Zingaro ANG Federal Battery

Sample ID: MB-61936	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61936	RunNo: 80485								
Prep Date: 8/12/2021	Analysis Date: 8/12/2021	SeqNo: 2837857 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61936	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61936	RunNo: 80485								
Prep Date: 8/12/2021	Analysis Date: 8/12/2021	SeqNo: 2837858 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-61952	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61952	RunNo: 80531								
Prep Date: 8/13/2021	Analysis Date: 8/13/2021	SeqNo: 2839734 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61952	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61952	RunNo: 80531								
Prep Date: 8/13/2021	Analysis Date: 8/13/2021	SeqNo: 2839735 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: MB-61964	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61964	RunNo: 80533								
Prep Date: 8/13/2021	Analysis Date: 8/13/2021	SeqNo: 2839814 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

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#: 2108367

17-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: MB-61861	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61861	RunNo: 80429								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2836003			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		118	70	130			

Sample ID: LCS-61861	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61861	RunNo: 80429								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2836004			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	68.9	141			
Surr: DNOP	5.5		5.000		109	70	130			

Sample ID: MB-61856	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61856	RunNo: 80429								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2836040			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		129	70	130			

Sample ID: LCS-61856	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61856	RunNo: 80429								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2836041			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: MB-61913	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61913	RunNo: 80484								
Prep Date: 8/11/2021	Analysis Date: 8/12/2021	SeqNo: 2837574			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Sample ID: LCS-61913	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61913	RunNo: 80484								
Prep Date: 8/11/2021	Analysis Date: 8/12/2021	SeqNo: 2837575			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#: 2108367

17-Aug-21

Client: GHD Midland

Project: Zingaro ANG Federal Battery

Sample ID: LCS-61913		SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS		Batch ID: 61913			RunNo: 80484					
Prep Date: 8/11/2021		Analysis Date: 8/12/2021			SeqNo: 2837575		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	99.0	68.9	141			
Surr: DNOP	5.4		5.000		107	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#: 2108367

17-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: mb-61859		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS		Batch ID: 61859		RunNo: 80471						
Prep Date: 8/9/2021		Analysis Date: 8/11/2021		SeqNo: 2836828		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.1	70	130			

Sample ID: lcs-61859		SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS		Batch ID: 61859			RunNo: 80471					
Prep Date: 8/9/2021		Analysis Date: 8/11/2021			SeqNo: 2836867		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.4	78.6	131			
Surr: BFB	1000		1000		102	70	130			

Sample ID: 2108367-001ams		SampType: MS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH-11		Batch ID: 61859			RunNo: 80471					
Prep Date: 8/9/2021		Analysis Date: 8/11/2021			SeqNo: 2836869		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	24	24.32	0	127	61.3	114			S
Surr: BFB	5100		4864		104	70	130			

Sample ID: 2108367-001amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH-11		Batch ID: 61859			RunNo: 80471					
Prep Date: 8/9/2021		Analysis Date: 8/11/2021			SeqNo: 2836871		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	25	24.70	0	115	61.3	114	8.54	20	S
Surr: BFB	4800		4941		96.3	70	130	0	0	

Qualifiers:

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

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

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

WO#: 2108367

17-Aug-21

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: mb-61859	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61859	RunNo: 80471								
Prep Date: 8/9/2021	Analysis Date: 8/11/2021	SeqNo: 2836911 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		86.2	70	130			

Sample ID: lcs-61859	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61859	RunNo: 80471								
Prep Date: 8/9/2021	Analysis Date: 8/11/2021	SeqNo: 2836913 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	0.98	0.050	1.000	0	98.0	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	70	130			

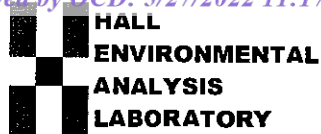
Sample ID: 2108367-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-12	Batch ID: 61859	RunNo: 80471								
Prep Date: 8/9/2021	Analysis Date: 8/11/2021	SeqNo: 2836915 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.12	0.9756	0	100	80	120			
Toluene	0.99	0.24	0.9756	0	102	80	120			
Ethylbenzene	1.1	0.24	0.9756	0	111	80	120			
Xylenes, Total	3.2	0.49	2.927	0	109	80	120			
Surr: 4-Bromofluorobenzene	4.4		4.878		90.7	70	130			

Sample ID: 2108367-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-12	Batch ID: 61859	RunNo: 80471								
Prep Date: 8/9/2021	Analysis Date: 8/11/2021	SeqNo: 2836917 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.12	0.9728	0	101	80	120	0.101	20	
Toluene	0.98	0.24	0.9728	0	101	80	120	0.972	20	
Ethylbenzene	1.1	0.24	0.9728	0	108	80	120	2.92	20	
Xylenes, Total	3.1	0.49	2.918	0	108	80	120	1.80	20	
Surr: 4-Bromofluorobenzene	4.4		4.864		90.7	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: **2108367**

RcptNo: 1

Received By: **Sean Livingston**

8/7/2021 9:10:00 AM

*Sean Livingston*Completed By: **Sean Livingston**

8/7/2021 10:06:07 AM

*Sean Livingston*Reviewed By: *AS 08/07/2021*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *SLC 8/7/21*

Special Handling (if applicable)

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

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	0.6	Good				
2	2.8	Good				
3	4.7	Good				

Chain-of-Custody Record

Client: GHID

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:

Zigzag AUG Edward Batley

Project#:

11228201

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 3

Cooler Temp (including C/F): see remarks

Container Type and #

Preservative Type

HEAL No.

2109267

Date Time Matrix Sample Name

08/02/21 1025 S BH-11

1030 BH-12

1035 BH-13

1040 BH-14

1045 BH-15

1050 BH-16

1055 BH-17

1230 BH-18

1235 BH-19

1320 BH-20

1325 BH-21

1330 BH-22

Date:

08/02/21 0800

Relinquished by:

Zach Comino

Relinquished by:

Zach Comino

Received by:

Via:

Date Time

8/6/21 800

Received by:

Via:

Date Time

8/7/21 9:10

Remarks: Please email: Chase_Settle@eogresources.com;

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

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

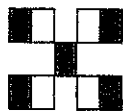
listed above.

Direct Bill to EOG Chase Settle

4.750-24.7

2.850-8.8

Any sub-contracted data will be clearly noted 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

REF: MTBE / TMBs (8024)

PPH: 8015D (GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Nitrate 300

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard

☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC

☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Zigzag AUG Edward Bailey

Project #:

11228201

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 3

Cooler Temp (including CSI) See remarks

Container Type and #

Preservative Type

HEAL No.

013

014

015

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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

August 24, 2021

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

RE: Zingavo ANG Federal Battery

OrderNo.: 2108789

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/14/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-27

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:00:00 PM

Lab ID: 2108789-001

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 2:24:19 PM	62096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	10	9.7		mg/Kg	1	8/18/2021 2:24:09 PM	62022
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/18/2021 2:24:09 PM	62022
Surr: DNOP	90.0	70-130		%Rec	1	8/18/2021 2:24:09 PM	62022
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	8/18/2021 9:06:00 PM	62002
Surr: BFB	110	70-130		%Rec	5	8/18/2021 9:06:00 PM	62002
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/18/2021 9:06:00 PM	62002
Toluene	ND	0.23		mg/Kg	5	8/18/2021 9:06:00 PM	62002
Ethylbenzene	ND	0.23		mg/Kg	5	8/18/2021 9:06:00 PM	62002
Xylenes, Total	ND	0.46		mg/Kg	5	8/18/2021 9:06:00 PM	62002
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	5	8/18/2021 9:06:00 PM	62002

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 1 of 16

Analytical Report

Lab Order 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-28

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:05:00 PM

Lab ID: 2108789-002

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 2:36:44 PM	62096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/18/2021 2:35:55 PM	62022
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2021 2:35:55 PM	62022
Surr: DNOP	93.1	70-130		%Rec	1	8/18/2021 2:35:55 PM	62022
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/18/2021 10:06:00 PM	62002
Surr: BFB	110	70-130		%Rec	5	8/18/2021 10:06:00 PM	62002
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/18/2021 10:06:00 PM	62002
Toluene	ND	0.24		mg/Kg	5	8/18/2021 10:06:00 PM	62002
Ethylbenzene	ND	0.24		mg/Kg	5	8/18/2021 10:06:00 PM	62002
Xylenes, Total	ND	0.47		mg/Kg	5	8/18/2021 10:06:00 PM	62002
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	5	8/18/2021 10:06:00 PM	62002

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-29

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:10:00 PM

Lab ID: 2108789-003

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 3:13:59 PM	62096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	46	9.9		mg/Kg	1	8/18/2021 2:48:00 PM	62022
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/18/2021 2:48:00 PM	62022
Surr: DNOP	94.4	70-130		%Rec	1	8/18/2021 2:48:00 PM	62022
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	8/18/2021 10:26:00 PM	62002
Surr: BFB	114	70-130		%Rec	5	8/18/2021 10:26:00 PM	62002
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/18/2021 10:26:00 PM	62002
Toluene	ND	0.23		mg/Kg	5	8/18/2021 10:26:00 PM	62002
Ethylbenzene	ND	0.23		mg/Kg	5	8/18/2021 10:26:00 PM	62002
Xylenes, Total	ND	0.47		mg/Kg	5	8/18/2021 10:26:00 PM	62002
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	5	8/18/2021 10:26:00 PM	62002

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-30

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:20:00 PM

Lab ID: 2108789-004

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 3:26:23 PM	62096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	730	9.6		mg/Kg	1	8/18/2021 2:59:49 PM	62022
Motor Oil Range Organics (MRO)	340	48		mg/Kg	1	8/18/2021 2:59:49 PM	62022
Surr: DNOP	98.2	70-130		%Rec	1	8/18/2021 2:59:49 PM	62022
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/18/2021 10:46:00 PM	62002
Surr: BFB	119	70-130		%Rec	5	8/18/2021 10:46:00 PM	62002
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/18/2021 10:46:00 PM	62002
Toluene	ND	0.24		mg/Kg	5	8/18/2021 10:46:00 PM	62002
Ethylbenzene	ND	0.24		mg/Kg	5	8/18/2021 10:46:00 PM	62002
Xylenes, Total	0.81	0.48		mg/Kg	5	8/18/2021 10:46:00 PM	62002
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	8/18/2021 10:46:00 PM	62002

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-31

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:25:00 PM

Lab ID: 2108789-005

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	83	60		mg/Kg	20	8/20/2021 3:38:48 PM	62096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	480	9.4		mg/Kg	1	8/18/2021 3:11:42 PM	62022
Motor Oil Range Organics (MRO)	220	47		mg/Kg	1	8/18/2021 3:11:42 PM	62022
Surr: DNOP	96.2	70-130		%Rec	1	8/18/2021 3:11:42 PM	62022
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	8/18/2021 11:06:00 PM	62002
Surr: BFB	122	70-130		%Rec	5	8/18/2021 11:06:00 PM	62002
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/18/2021 11:06:00 PM	62002
Toluene	ND	0.25		mg/Kg	5	8/18/2021 11:06:00 PM	62002
Ethylbenzene	ND	0.25		mg/Kg	5	8/18/2021 11:06:00 PM	62002
Xylenes, Total	2.0	0.49		mg/Kg	5	8/18/2021 11:06:00 PM	62002
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	8/18/2021 11:06:00 PM	62002

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-32

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:30:00 PM

Lab ID: 2108789-006

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 3:51:12 PM	62096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	49	9.7		mg/Kg	1	8/18/2021 3:58:36 PM	62028
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	8/18/2021 3:58:36 PM	62028
Surr: DNOP	113	70-130		%Rec	1	8/18/2021 3:58:36 PM	62028
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/18/2021 11:26:00 PM	62002
Surr: BFB	110	70-130		%Rec	5	8/18/2021 11:26:00 PM	62002
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/18/2021 11:26:00 PM	62002
Toluene	ND	0.24		mg/Kg	5	8/18/2021 11:26:00 PM	62002
Ethylbenzene	ND	0.24		mg/Kg	5	8/18/2021 11:26:00 PM	62002
Xylenes, Total	ND	0.48		mg/Kg	5	8/18/2021 11:26:00 PM	62002
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	5	8/18/2021 11:26:00 PM	62002

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-33

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:40:00 PM

Lab ID: 2108789-007

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 4:03:37 PM	62096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	200	9.9		mg/Kg	1	8/18/2021 4:08:27 PM	62028
Motor Oil Range Organics (MRO)	90	50		mg/Kg	1	8/18/2021 4:08:27 PM	62028
Surr: DNOP	113	70-130		%Rec	1	8/18/2021 4:08:27 PM	62028
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/18/2021 11:46:00 PM	62002
Surr: BFB	119	70-130		%Rec	5	8/18/2021 11:46:00 PM	62002
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	8/18/2021 11:46:00 PM	62002
Toluene	ND	0.24		mg/Kg	5	8/18/2021 11:46:00 PM	62002
Ethylbenzene	ND	0.24		mg/Kg	5	8/18/2021 11:46:00 PM	62002
Xylenes, Total	0.52	0.49		mg/Kg	5	8/18/2021 11:46:00 PM	62002
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	5	8/18/2021 11:46:00 PM	62002

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-34

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:45:00 PM

Lab ID: 2108789-008

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	59		mg/Kg	20	8/20/2021 4:16:01 PM	62096
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	79	4.6		mg/Kg	1	8/24/2021 11:55:24 AM	62009
Surr: BFB	121	70-130		%Rec	1	8/24/2021 11:55:24 AM	62009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	86	9.8		mg/Kg	1	8/18/2021 4:18:18 PM	62028
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/18/2021 4:18:18 PM	62028
Surr: DNOP	128	70-130		%Rec	1	8/18/2021 4:18:18 PM	62028
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	8/24/2021 11:55:24 AM	62009
Toluene	ND	0.046		mg/Kg	1	8/24/2021 11:55:24 AM	62009
Ethylbenzene	ND	0.046		mg/Kg	1	8/24/2021 11:55:24 AM	62009
Xylenes, Total	1.1	0.092		mg/Kg	1	8/24/2021 11:55:24 AM	62009
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	8/24/2021 11:55:24 AM	62009
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	8/24/2021 11:55:24 AM	62009
Surr: Dibromofluoromethane	95.3	70-130		%Rec	1	8/24/2021 11:55:24 AM	62009
Surr: Toluene-d8	110	70-130		%Rec	1	8/24/2021 11:55:24 AM	62009

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108789

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-35

Project: Zingavo ANG Federal Battery

Collection Date: 8/12/2021 1:55:00 PM

Lab ID: 2108789-009

Matrix: SOIL

Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 4:28:27 PM	62096
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/24/2021 12:49:35 PM	62009
Surr: BFB	99.7	70-130		%Rec	1	8/24/2021 12:49:35 PM	62009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	100	9.9		mg/Kg	1	8/18/2021 4:28:08 PM	62028
Motor Oil Range Organics (MRO)	67	49		mg/Kg	1	8/18/2021 4:28:08 PM	62028
Surr: DNOP	127	70-130		%Rec	1	8/18/2021 4:28:08 PM	62028
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/24/2021 12:49:35 PM	62009
Toluene	ND	0.048		mg/Kg	1	8/24/2021 12:49:35 PM	62009
Ethylbenzene	ND	0.048		mg/Kg	1	8/24/2021 12:49:35 PM	62009
Xylenes, Total	ND	0.096		mg/Kg	1	8/24/2021 12:49:35 PM	62009
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	8/24/2021 12:49:35 PM	62009
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	8/24/2021 12:49:35 PM	62009
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	8/24/2021 12:49:35 PM	62009
Surr: Toluene-d8	103	70-130		%Rec	1	8/24/2021 12:49:35 PM	62009

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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#: 2108789

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: MB-62096	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62096	RunNo: 80680								
Prep Date: 8/20/2021	Analysis Date: 8/20/2021	SeqNo: 2846896	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62096	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62096	RunNo: 80680								
Prep Date: 8/20/2021	Analysis Date: 8/20/2021	SeqNo: 2846897	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Qualifiers:

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

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#: 2108789

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: MB-62028	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62028	RunNo: 80620								
Prep Date: 8/17/2021	Analysis Date: 8/18/2021	SeqNo: 2844115			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		130	70	130			

Sample ID: MB-62022	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62022	RunNo: 80624								
Prep Date: 8/17/2021	Analysis Date: 8/18/2021	SeqNo: 2844795			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		130	70	130			S

Sample ID: LCS-62022	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62022	RunNo: 80624								
Prep Date: 8/17/2021	Analysis Date: 8/18/2021	SeqNo: 2844798			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	68.9	141			
Surr: DNOP	5.2		5.000		104	70	130			

Sample ID: LCS-62028	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62028	RunNo: 80662								
Prep Date: 8/17/2021	Analysis Date: 8/19/2021	SeqNo: 2845395			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	109	68.9	141			
Surr: DNOP	5.5		5.000		111	70	130			

Sample ID: MB-62095	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62095	RunNo: 80691								
Prep Date: 8/20/2021	Analysis Date: 8/20/2021	SeqNo: 2846661			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2108789
24-Aug-21

Client: GHD Midland
Project: Zingavo ANG Federal Battery

Sample ID: LCS-62095	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62095	RunNo: 80691								
Prep Date: 8/20/2021	Analysis Date: 8/20/2021	SeqNo: 2846662		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.4	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#: 2108789

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: mb-62002	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62002	RunNo: 80628								
Prep Date: 8/16/2021	Analysis Date: 8/18/2021	SeqNo: 2844295 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-62002	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62002	RunNo: 80628								
Prep Date: 8/16/2021	Analysis Date: 8/18/2021	SeqNo: 2844297 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1200		1000		119	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#: 2108789

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: mb-62002	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62002	RunNo: 80628								
Prep Date: 8/16/2021	Analysis Date: 8/18/2021	SeqNo: 2844329	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		95.3	70	130			

Sample ID: lcs-62002	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62002	RunNo: 80628								
Prep Date: 8/16/2021	Analysis Date: 8/18/2021	SeqNo: 2844331	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	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#: 2108789

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: Ics-62009	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 62009	RunNo: 80737								
Prep Date: 8/16/2021	Analysis Date: 8/23/2021	SeqNo: 2849154	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	70	130			
Toluene	1.0	0.050	1.000	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.5	70	130			
Surr: 4-Bromofluorobenzene	0.58		0.5000		115	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.5	70	130			
Surr: Toluene-d8	0.49		0.5000		98.3	70	130			

Sample ID: mb-62009	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 62009	RunNo: 80737								
Prep Date: 8/16/2021	Analysis Date: 8/23/2021	SeqNo: 2849155	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: 1,2-Dichloroethane-d4	0.48		0.5000		95.8	70	130			
Surr: 4-Bromofluorobenzene	0.57		0.5000		113	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		85.7	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Qualifiers:

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

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

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

WO#: 2108789

24-Aug-21

Client: GHD Midland
Project: Zingavo ANG Federal Battery

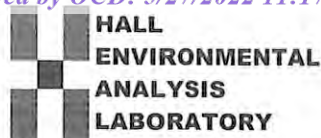
Sample ID: lcs-62009	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 62009			RunNo: 80737						
Prep Date: 8/16/2021	Analysis Date: 8/23/2021			SeqNo: 2848444		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	520		500.0		105	70	130			

Sample ID: mb-62009	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 62009			RunNo: 80737						
Prep Date: 8/16/2021	Analysis Date: 8/23/2021			SeqNo: 2848446		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	520		500.0		105	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: 2108789

RcptNo: 1

Received By: Isaiah Ortiz

8/14/2021 8:35:00 AM

I-Ox

Completed By: Isaiah Ortiz

8/14/2021 11:03:41 AM

I-Ox

Reviewed By: CP

8/14/21

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:

IG
8-14-21

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Not Present			



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

August 24, 2021

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

RE: Zingavo ANG Federal Battery

OrderNo.: 2108923

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/18/2021 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 2108923

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-17A

Project: Zingavo ANG Federal Battery

Collection Date: 8/17/2021 12:35:00 PM

Lab ID: 2108923-001

Matrix: SOIL

Received Date: 8/18/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 8:24:15 PM	62096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/19/2021 11:44:10 AM	62059
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/19/2021 11:44:10 AM	62059
Surr: DNOP	135	70-130	S	%Rec	1	8/19/2021 11:44:10 AM	62059
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/19/2021 9:08:00 AM	62057
Surr: BFB	97.8	70-130		%Rec	1	8/19/2021 9:08:00 AM	62057
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	8/19/2021 9:08:00 AM	62057
Toluene	ND	0.049		mg/Kg	1	8/19/2021 9:08:00 AM	62057
Ethylbenzene	ND	0.049		mg/Kg	1	8/19/2021 9:08:00 AM	62057
Xylenes, Total	ND	0.098		mg/Kg	1	8/19/2021 9:08:00 AM	62057
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	8/19/2021 9:08:00 AM	62057

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108923

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-19A

Project: Zingavo ANG Federal Battery

Collection Date: 8/17/2021 12:40:00 PM

Lab ID: 2108923-002

Matrix: SOIL

Received Date: 8/18/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/22/2021 1:37:52 PM	62110
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/19/2021 12:13:13 PM	62059
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/19/2021 12:13:13 PM	62059
Surr: DNOP	132	70-130	S	%Rec	1	8/19/2021 12:13:13 PM	62059
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/19/2021 10:08:00 AM	62057
Surr: BFB	95.9	70-130		%Rec	1	8/19/2021 10:08:00 AM	62057
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	8/19/2021 10:08:00 AM	62057
Toluene	ND	0.049		mg/Kg	1	8/19/2021 10:08:00 AM	62057
Ethylbenzene	ND	0.049		mg/Kg	1	8/19/2021 10:08:00 AM	62057
Xylenes, Total	ND	0.098		mg/Kg	1	8/19/2021 10:08:00 AM	62057
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	8/19/2021 10:08:00 AM	62057

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108923

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-5A

Project: Zingavo ANG Federal Battery

Collection Date: 8/17/2021 12:50:00 PM

Lab ID: 2108923-003

Matrix: SOIL

Received Date: 8/18/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	74	61		mg/Kg	20	8/22/2021 1:50:17 PM	62110
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	8/19/2021 12:22:55 PM	62059
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	8/19/2021 12:22:55 PM	62059
Surr: DNOP	136	70-130	S	%Rec	1	8/19/2021 12:22:55 PM	62059
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/19/2021 11:07:00 AM	62057
Surr: BFB	97.3	70-130		%Rec	1	8/19/2021 11:07:00 AM	62057
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	8/19/2021 11:07:00 AM	62057
Toluene	ND	0.046		mg/Kg	1	8/19/2021 11:07:00 AM	62057
Ethylbenzene	ND	0.046		mg/Kg	1	8/19/2021 11:07:00 AM	62057
Xylenes, Total	ND	0.091		mg/Kg	1	8/19/2021 11:07:00 AM	62057
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	8/19/2021 11:07:00 AM	62057

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108923

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8A

Project: Zingavo ANG Federal Battery

Collection Date: 8/17/2021 12:55:00 PM

Lab ID: 2108923-004

Matrix: SOIL

Received Date: 8/18/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/22/2021 2:02:42 PM	62110
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/19/2021 12:32:38 PM	62059
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/19/2021 12:32:38 PM	62059
Surr: DNOP	134	70-130	S	%Rec	1	8/19/2021 12:32:38 PM	62059
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2021 11:27:00 AM	62057
Surr: BFB	91.7	70-130		%Rec	1	8/19/2021 11:27:00 AM	62057
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	8/19/2021 11:27:00 AM	62057
Toluene	ND	0.048		mg/Kg	1	8/19/2021 11:27:00 AM	62057
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2021 11:27:00 AM	62057
Xylenes, Total	ND	0.095		mg/Kg	1	8/19/2021 11:27:00 AM	62057
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	8/19/2021 11:27:00 AM	62057

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108923

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-17A

Project: Zingavo ANG Federal Battery

Collection Date: 8/17/2021 1:05:00 PM

Lab ID: 2108923-005

Matrix: SOIL

Received Date: 8/18/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/22/2021 2:39:55 PM	62110
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/19/2021 12:42:22 PM	62059
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/19/2021 12:42:22 PM	62059
Surr: DNOP	159	70-130	S	%Rec	1	8/19/2021 12:42:22 PM	62059
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/19/2021 11:47:00 AM	62057
Surr: BFB	94.4	70-130		%Rec	1	8/19/2021 11:47:00 AM	62057
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	8/19/2021 11:47:00 AM	62057
Toluene	ND	0.046		mg/Kg	1	8/19/2021 11:47:00 AM	62057
Ethylbenzene	ND	0.046		mg/Kg	1	8/19/2021 11:47:00 AM	62057
Xylenes, Total	ND	0.091		mg/Kg	1	8/19/2021 11:47:00 AM	62057
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	8/19/2021 11:47:00 AM	62057

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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 2108923

Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-19A

Project: Zingavo ANG Federal Battery

Collection Date: 8/17/2021 1:10:00 PM

Lab ID: 2108923-006

Matrix: SOIL

Received Date: 8/18/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	8/22/2021 2:52:19 PM	62110
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/19/2021 12:52:07 PM	62059
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/19/2021 12:52:07 PM	62059
Surr: DNOP	136	70-130	S	%Rec	1	8/19/2021 12:52:07 PM	62059
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/19/2021 12:07:00 PM	62057
Surr: BFB	92.5	70-130		%Rec	1	8/19/2021 12:07:00 PM	62057
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	8/19/2021 12:07:00 PM	62057
Toluene	ND	0.049		mg/Kg	1	8/19/2021 12:07:00 PM	62057
Ethylbenzene	ND	0.049		mg/Kg	1	8/19/2021 12:07:00 PM	62057
Xylenes, Total	ND	0.098		mg/Kg	1	8/19/2021 12:07:00 PM	62057
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	8/19/2021 12:07:00 PM	62057

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting 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#: 2108923

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: MB-62096	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62096	RunNo: 80680								
Prep Date: 8/20/2021	Analysis Date: 8/20/2021	SeqNo: 2846896 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62096	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62096	RunNo: 80680								
Prep Date: 8/20/2021	Analysis Date: 8/20/2021	SeqNo: 2846897 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-62110	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62110	RunNo: 80705								
Prep Date: 8/22/2021	Analysis Date: 8/22/2021	SeqNo: 2847036 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62110	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62110	RunNo: 80705								
Prep Date: 8/22/2021	Analysis Date: 8/22/2021	SeqNo: 2847037 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.8	90	110			

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#: 2108923

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: 2108923-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-17A	Batch ID: 62059	RunNo: 80660								
Prep Date: 8/18/2021	Analysis Date: 8/19/2021	SeqNo: 2845361 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	9.3	46.51	0	131	15	184			
Surr: DNOP	6.4		4.651		137	70	130			S

Sample ID: 2108923-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-17A	Batch ID: 62059	RunNo: 80660								
Prep Date: 8/18/2021	Analysis Date: 8/19/2021	SeqNo: 2845362 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	49.80	0	105	15	184	15.3	23.9	
Surr: DNOP	5.5		4.980		111	70	130	0	0	

Sample ID: LCS-62059	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62059	RunNo: 80660								
Prep Date: 8/18/2021	Analysis Date: 8/19/2021	SeqNo: 2845382 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	68.9	141			
Surr: DNOP	5.5		5.000		109	70	130			

Sample ID: MB-62059	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62059	RunNo: 80660								
Prep Date: 8/18/2021	Analysis Date: 8/19/2021	SeqNo: 2845383 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	14		10.00		139	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#: 2108923

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: ics-62057	SampType: LCS					TestCode: EPA Method 8015D: Gasoline Range				
Client ID: LCSS	Batch ID: 62057					RunNo: 80674				
Prep Date: 8/18/2021	Analysis Date: 8/19/2021					SeqNo: 2846131	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	112	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: mb-62057	SampType: MBLK					TestCode: EPA Method 8015D: Gasoline Range				
Client ID: PBS	Batch ID: 62057					RunNo: 80674				
Prep Date: 8/18/2021	Analysis Date: 8/19/2021					SeqNo: 2846132	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.5	70	130			

Sample ID: 2108923-001ams	SampType: MS					TestCode: EPA Method 8015D: Gasoline Range				
Client ID: SW-17A	Batch ID: 62057					RunNo: 80674				
Prep Date: 8/18/2021	Analysis Date: 8/19/2021					SeqNo: 2846134	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	24.06	0	122	61.3	114			S
Surr: BFB	1100		962.5		113	70	130			

Sample ID: 2108923-001amsd	SampType: MSD					TestCode: EPA Method 8015D: Gasoline Range				
Client ID: SW-17A	Batch ID: 62057					RunNo: 80674				
Prep Date: 8/18/2021	Analysis Date: 8/19/2021					SeqNo: 2846135	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	24.04	0	120	61.3	114	2.08	20	S
Surr: BFB	1100		961.5		114	70	130	0	0	

Sample ID: ics-62065	SampType: LCS					TestCode: EPA Method 8015D: Gasoline Range				
Client ID: LCSS	Batch ID: 62065					RunNo: 80674				
Prep Date: 8/18/2021	Analysis Date: 8/19/2021					SeqNo: 2846155	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	70	130			

Sample ID: mb-62065	SampType: MBLK					TestCode: EPA Method 8015D: Gasoline Range				
Client ID: PBS	Batch ID: 62065					RunNo: 80674				
Prep Date: 8/18/2021	Analysis Date: 8/19/2021					SeqNo: 2846156	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.1	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#: 2108923

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: lcs-62057	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 62057				RunNo: 80674					
Prep Date: 8/18/2021	Analysis Date: 8/19/2021				SeqNo: 2846171	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.3	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: mb-62057	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 62057				RunNo: 80674					
Prep Date: 8/18/2021	Analysis Date: 8/19/2021				SeqNo: 2846172	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		83.5	70	130			

Sample ID: 2108923-002ams	SampType: MS				TestCode: EPA Method 8021B: Volatiles					
Client ID: SW-19A	Batch ID: 62057				RunNo: 80674					
Prep Date: 8/18/2021	Analysis Date: 8/19/2021				SeqNo: 2846175	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.023	0.9311	0	104	80	120			
Toluene	1.0	0.047	0.9311	0	108	80	120			
Ethylbenzene	1.0	0.047	0.9311	0	111	80	120			
Xylenes, Total	3.1	0.093	2.793	0	112	80	120			
Surr: 4-Bromofluorobenzene	0.79		0.9311		85.0	70	130			

Sample ID: 2108923-002amsd	SampType: MSD				TestCode: EPA Method 8021B: Volatiles					
Client ID: SW-19A	Batch ID: 62057				RunNo: 80674					
Prep Date: 8/18/2021	Analysis Date: 8/19/2021				SeqNo: 2846176	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9990	0	102	80	120	4.82	20	
Toluene	1.0	0.050	0.9990	0	105	80	120	4.42	20	
Ethylbenzene	1.1	0.050	0.9990	0	110	80	120	6.37	20	
Xylenes, Total	3.3	0.10	2.997	0	111	80	120	6.18	20	
Surr: 4-Bromofluorobenzene	0.85		0.9990		85.4	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#: 2108923

24-Aug-21

Client: GHD Midland**Project:** Zingavo ANG Federal Battery

Sample ID: lcs-62065	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 62065		RunNo: 80674							
Prep Date: 8/18/2021	Analysis Date: 8/19/2021		SeqNo: 2846195		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.85		1.000		84.8	70	130			

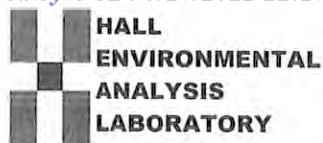
Sample ID: mb-62065	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 62065		RunNo: 80674							
Prep Date: 8/18/2021	Analysis Date: 8/19/2021		SeqNo: 2846196		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		83.6	70	130			

Qualifiers:

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

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

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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: **2108923**RcptNo: **1**Received By: **Cheyenne Cason**

8/18/2021 8:35:00 AM

Completed By: **Sean Livingston**

8/18/2021 8:47:52 AM

Reviewed By:

JRC 8/18/21

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: KPG 8/18/21

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	5.4	Good				



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

March 08, 2022

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

RE: Zingaro ANG Federal Battery

OrderNo.: 2202C08

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/25/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2202C08

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-30A

Project: Zingaro ANG Federal Battery

Collection Date: 2/23/2022 8:30:00 AM

Lab ID: 2202C08-001

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	85	60		mg/Kg	20	3/3/2022 1:34:53 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	22	9.1		mg/Kg	1	3/2/2022 1:05:36 PM	65852
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/2/2022 1:05:36 PM	65852
Surr: DNOP	104	51.1-141		%Rec	1	3/2/2022 1:05:36 PM	65852
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2022 5:33:25 PM	65809
Surr: BFB	108	70-130		%Rec	1	2/28/2022 5:33:25 PM	65809
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/28/2022 5:33:25 PM	65809
Toluene	ND	0.049		mg/Kg	1	2/28/2022 5:33:25 PM	65809
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2022 5:33:25 PM	65809
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2022 5:33:25 PM	65809
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/28/2022 5:33:25 PM	65809

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

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

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Analytical Report

Lab Order 2202C08

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-31A

Project: Zingaro ANG Federal Battery

Collection Date: 2/23/2022 8:35:00 AM

Lab ID: 2202C08-002

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	73	60		mg/Kg	20	3/3/2022 2:12:05 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/2/2022 1:16:28 PM	65852
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/2/2022 1:16:28 PM	65852
Surr: DNOP	63.1	51.1-141		%Rec	1	3/2/2022 1:16:28 PM	65852
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2022 5:56:52 PM	65809
Surr: BFB	108	70-130		%Rec	1	2/28/2022 5:56:52 PM	65809
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/28/2022 5:56:52 PM	65809
Toluene	ND	0.048		mg/Kg	1	2/28/2022 5:56:52 PM	65809
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2022 5:56:52 PM	65809
Xylenes, Total	ND	0.096		mg/Kg	1	2/28/2022 5:56:52 PM	65809
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/28/2022 5:56:52 PM	65809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2202C08

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-32A

Project: Zingaro ANG Federal Battery

Collection Date: 2/23/2022 8:40:00 AM

Lab ID: 2202C08-003

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	170	59		mg/Kg	20	3/3/2022 2:24:29 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	3/2/2022 1:27:20 PM	65852
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/2/2022 1:27:20 PM	65852
Surr: DNOP	56.7	51.1-141		%Rec	1	3/2/2022 1:27:20 PM	65852
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2022 6:20:18 PM	65809
Surr: BFB	113	70-130		%Rec	1	2/28/2022 6:20:18 PM	65809
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/28/2022 6:20:18 PM	65809
Toluene	ND	0.048		mg/Kg	1	2/28/2022 6:20:18 PM	65809
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2022 6:20:18 PM	65809
Xylenes, Total	ND	0.096		mg/Kg	1	2/28/2022 6:20:18 PM	65809
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/28/2022 6:20:18 PM	65809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2202C08

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-33A

Project: Zingaro ANG Federal Battery

Collection Date: 2/23/2022 8:45:00 AM

Lab ID: 2202C08-004

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	100	60		mg/Kg	20	3/3/2022 2:36:54 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/2/2022 1:38:12 PM	65852
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/2/2022 1:38:12 PM	65852
Surr: DNOP	56.5	51.1-141		%Rec	1	3/2/2022 1:38:12 PM	65852
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2022 6:43:49 PM	65809
Surr: BFB	109	70-130		%Rec	1	2/28/2022 6:43:49 PM	65809
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/28/2022 6:43:49 PM	65809
Toluene	ND	0.049		mg/Kg	1	2/28/2022 6:43:49 PM	65809
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2022 6:43:49 PM	65809
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2022 6:43:49 PM	65809
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/28/2022 6:43:49 PM	65809

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

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

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Analytical Report

Lab Order 2202C08

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-34A

Project: Zingaro ANG Federal Battery

Collection Date: 2/23/2022 8:50:00 AM

Lab ID: 2202C08-005

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	86	60		mg/Kg	20	3/3/2022 2:49:19 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/2/2022 1:49:10 PM	65852
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/2/2022 1:49:10 PM	65852
Surr: DNOP	92.3	51.1-141		%Rec	1	3/2/2022 1:49:10 PM	65852
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2022 7:07:24 PM	65809
Surr: BFB	107	70-130		%Rec	1	2/28/2022 7:07:24 PM	65809
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/28/2022 7:07:24 PM	65809
Toluene	ND	0.048		mg/Kg	1	2/28/2022 7:07:24 PM	65809
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2022 7:07:24 PM	65809
Xylenes, Total	ND	0.096		mg/Kg	1	2/28/2022 7:07:24 PM	65809
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/28/2022 7:07:24 PM	65809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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 2202C08

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-35A

Project: Zingaro ANG Federal Battery

Collection Date: 2/23/2022 8:55:00 AM

Lab ID: 2202C08-006

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	240	60		mg/Kg	20	3/3/2022 3:26:32 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/2/2022 2:00:14 PM	65852
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/2/2022 2:00:14 PM	65852
Surr: DNOP	90.6	51.1-141		%Rec	1	3/2/2022 2:00:14 PM	65852
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2022 7:30:55 PM	65809
Surr: BFB	127	70-130		%Rec	1	2/28/2022 7:30:55 PM	65809
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/28/2022 7:30:55 PM	65809
Toluene	ND	0.048		mg/Kg	1	2/28/2022 7:30:55 PM	65809
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2022 7:30:55 PM	65809
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2022 7:30:55 PM	65809
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/28/2022 7:30:55 PM	65809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not 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#: 2202C08

08-Mar-22

Client: GHD Midland
Project: Zingaro ANG Federal Battery

Sample ID: MB-65919	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 65919	RunNo: 86224								
Prep Date: 3/3/2022	Analysis Date: 3/3/2022	SeqNo: 3040668	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-65919	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 65919	RunNo: 86224								
Prep Date: 3/3/2022	Analysis Date: 3/3/2022	SeqNo: 3040669	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	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#: 2202C08

08-Mar-22

Client: GHD Midland
Project: Zingaro ANG Federal Battery

Sample ID: LCS-65852	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 65852		RunNo: 86180							
Prep Date: 3/1/2022	Analysis Date: 3/2/2022		SeqNo: 3038792		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.1	68.9	135			
Surr: DNOP	4.5		5.000		89.4	51.1	141			

Sample ID: MB-65852	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 65852		RunNo: 86180							
Prep Date: 3/1/2022	Analysis Date: 3/2/2022		SeqNo: 3038794		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	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#: 2202C08

08-Mar-22

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: mb-65809	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 65809	RunNo: 86141								
Prep Date: 2/25/2022	Analysis Date: 2/28/2022	SeqNo: 3035700 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-65809	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 65809	RunNo: 86141								
Prep Date: 2/25/2022	Analysis Date: 2/28/2022	SeqNo: 3035701 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	78.6	131			
Surr: BFB	1200		1000		117	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#: 2202C08

08-Mar-22

Client: GHD Midland**Project:** Zingaro ANG Federal Battery

Sample ID: mb-65809	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 65809	RunNo: 86141								
Prep Date: 2/25/2022	Analysis Date: 2/28/2022	SeqNo: 3035742	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-65809	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 65809	RunNo: 86141								
Prep Date: 2/25/2022	Analysis Date: 2/28/2022	SeqNo: 3035743	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	80	120			
Toluene	0.96	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix 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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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: 2202C08

RcptNo: 1

Received By: Cheyenne Cason

2/25/2022 8:00:00 AM

CC

Completed By: Desiree Dominguez

2/25/2022 8:20:25 AM

DD

Reviewed By:

m2/25/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 2/25/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good				

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 111621

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 111621
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/6/2022