

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

### Initial Response

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

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

<b>Characterization Report Checklist:</b> <i>Each of the following items must be included in the report.</i>
<input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
<input type="checkbox"/> Field data
<input checked="" type="checkbox"/> Data table of soil contaminant concentration data
<input checked="" type="checkbox"/> Depth to water determination
<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
<input type="checkbox"/> Boring or excavation logs
<input checked="" type="checkbox"/> Photographs including date and GIS information
<input checked="" type="checkbox"/> Topographic/Aerial maps
<input checked="" type="checkbox"/> Laboratory data including chain of custody

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

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

Printed Name: Chase 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, BH8A, 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

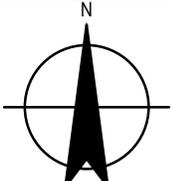
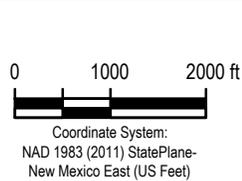
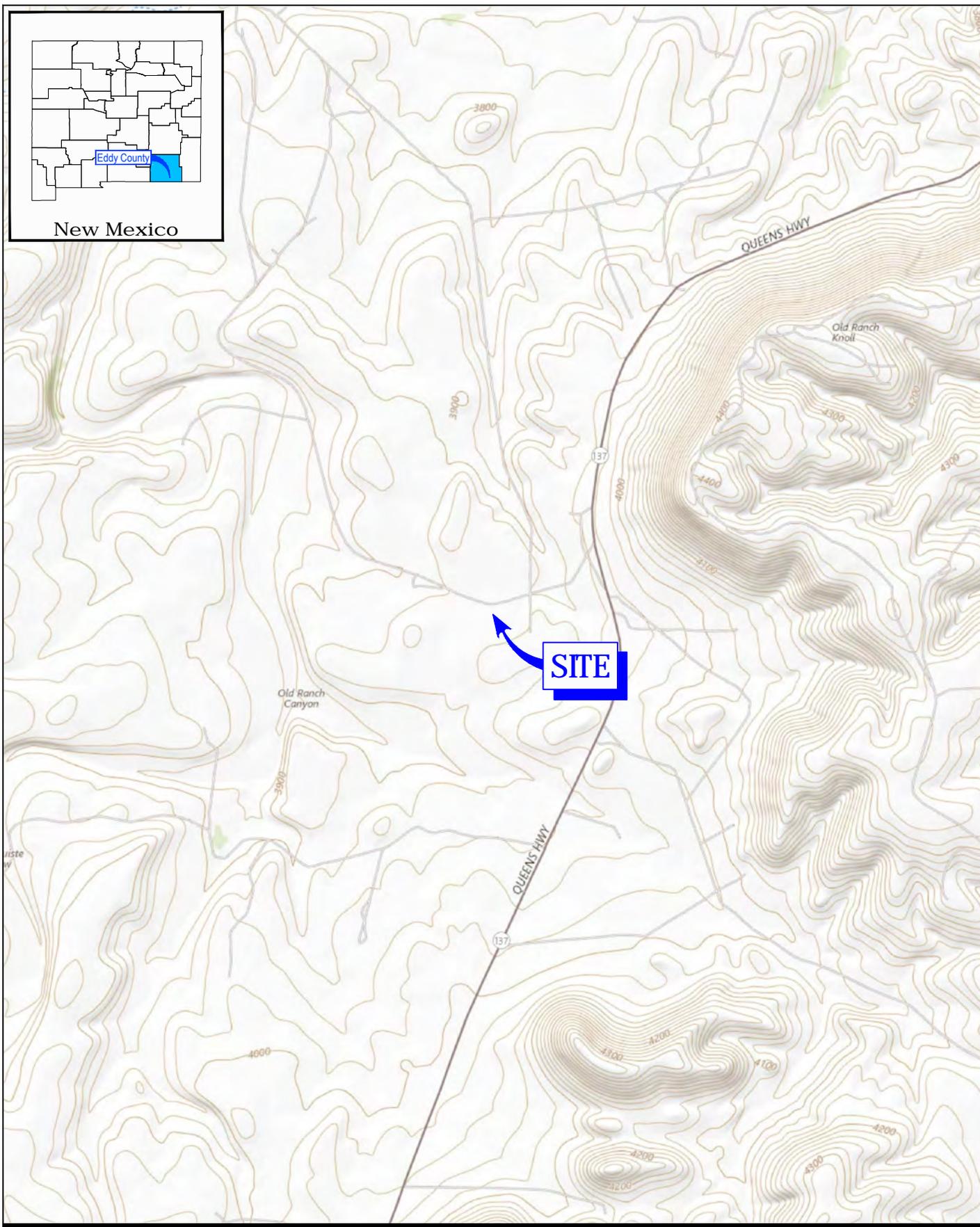
  
Tom Laron  
Project Director

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

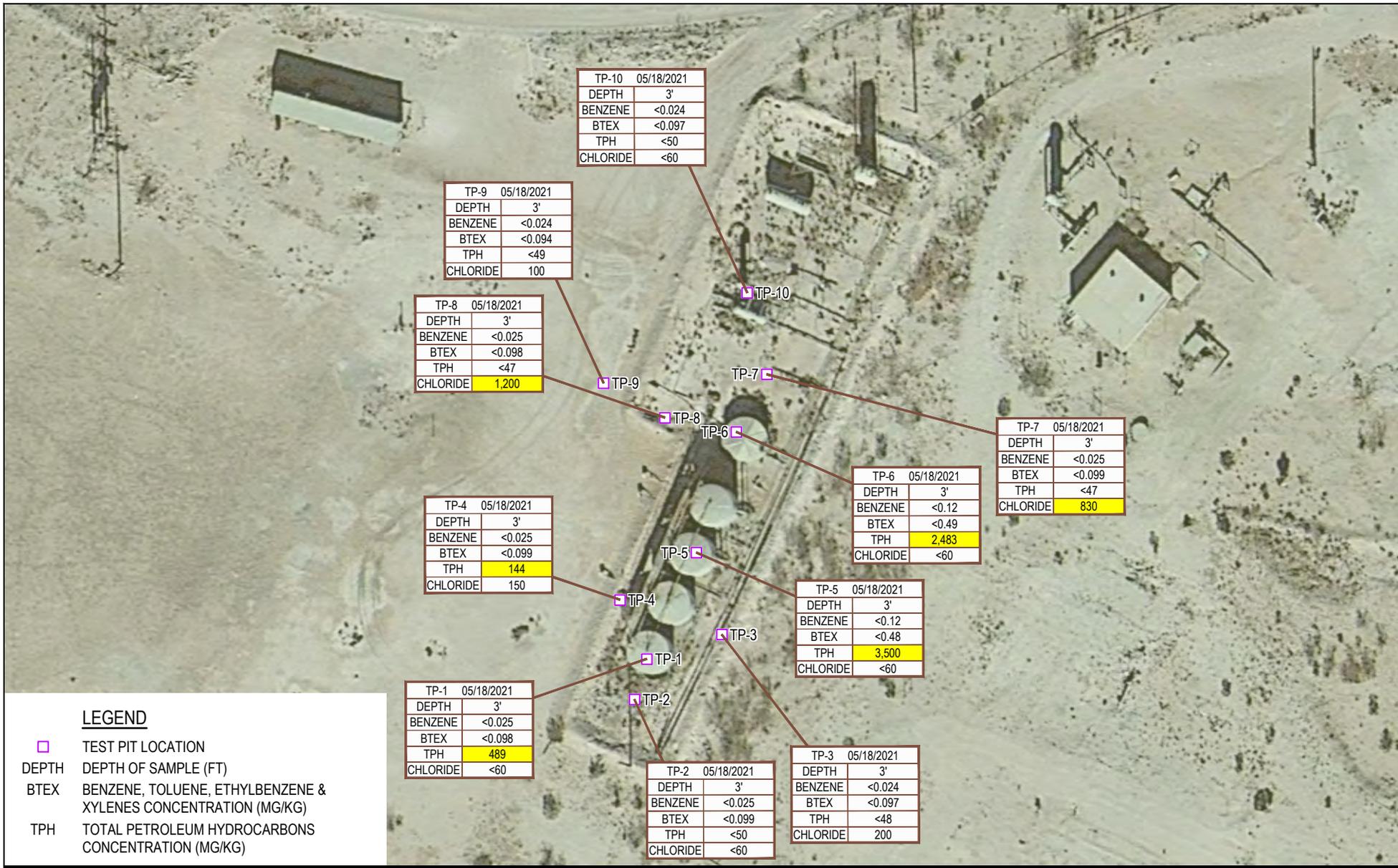


EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
ZINGARO ANG FEDERAL BATTERY

Project No. 11228201  
Date September 2021

SITE LOCATION MAP

FIGURE 1



**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

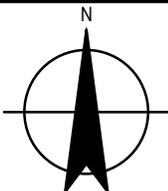
Project No. 11228201  
Date September 2021

**SITE ASSESSMENT:  
SOIL ANALYTICAL RESULTS MAP**

**FIGURE 2**



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



Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH	Chloride
			(mg/kg)	(mg/kg)	Total GRO/DROMRO	
			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
<b>Confirmation Samples - Sidewall</b>						
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

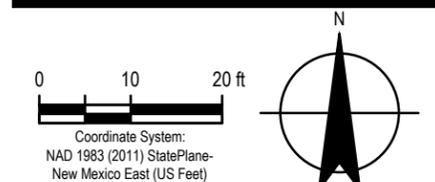
Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH	Chloride
			(mg/kg)	(mg/kg)	Total GRO/DROMRO	
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg
<b>Confirmation Samples - Bottom Hole</b>						
BH-1	8/4/21	8	<0.025	<0.099	<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:**
- RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
  - SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
  - YELLOW SHADED CELLS INDICATE EXCEEDANCE.



EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
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)
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
<b>Table 1 Closure Criteria for Soils &lt;50 feet Depth to Groundwater 19.15.29 NMAC</b>												
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
<b>Initial Assessment Samples - Test Pit</b>												
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
<b>Confirmation Samples - Bottom Hole</b>												
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
<del>BH-5</del>	<del>8/4/21</del>	<del>8</del>	<del>&lt;0.025</del>	<del>&lt;0.049</del>	<del>&lt;0.049</del>	<del>&lt;0.099</del>	<del>&lt;0.099</del>	<del>&lt;4.9</del>	<del>210</del>	<del>130</del>	<del>340</del>	<del>66</del>
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
<del>BH-8</del>	<del>8/4/21</del>	<del>7</del>	<del>&lt;0.024</del>	<del>&lt;0.049</del>	<del>&lt;0.049</del>	<del>&lt;0.098</del>	<del>&lt;0.098</del>	<del>&lt;4.9</del>	<del>82</del>	<del>69</del>	<del>151</del>	<del>210</del>
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)
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(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	2.0	2.0	<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)
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
<b>Table 1 Closure Criteria for Soils &lt;50 feet Depth to Groundwater 19.15.29 NMAC</b>												
			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
<b>Confirmation Samples - Sidewall</b>												
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) (mg/Kg)	DRO (C10-C28) (mg/Kg)	MRO (C28-C35) (mg/Kg)	Total GRO/DRO/MRO (mg/Kg)	
<b>Table 1 Closure Criteria for Soils &lt;50 feet Depth to Groundwater 19.15.29 NMAC</b>												
			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**

<b>Date of Disposal</b>	<b>Total Pounds Disposed</b>	<b>Total Tons Disposed</b>
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
<b>Project Total</b>	<b>9,035,790</b>	<b>4,518</b>

# **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

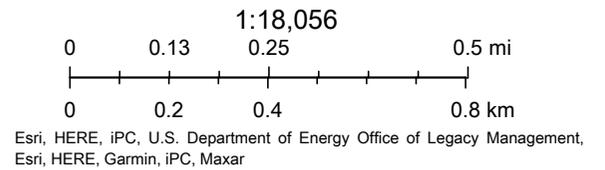
# Zingaro ANG Federal Battery



7/4/2021 3:33:45 PM

 OSE District Boundary

 Site Boundaries

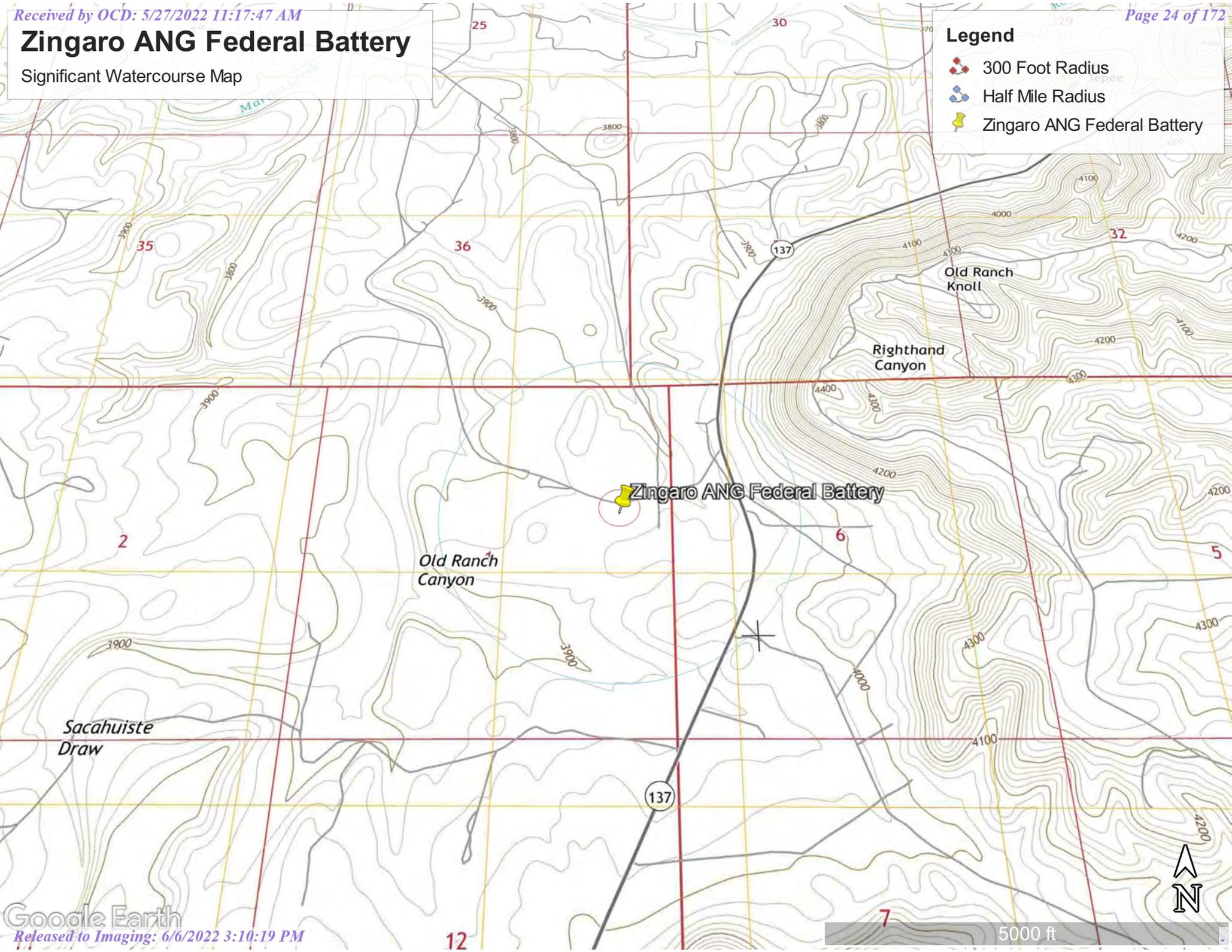


# Zingaro ANG Federal Battery

Significant Watercourse Map

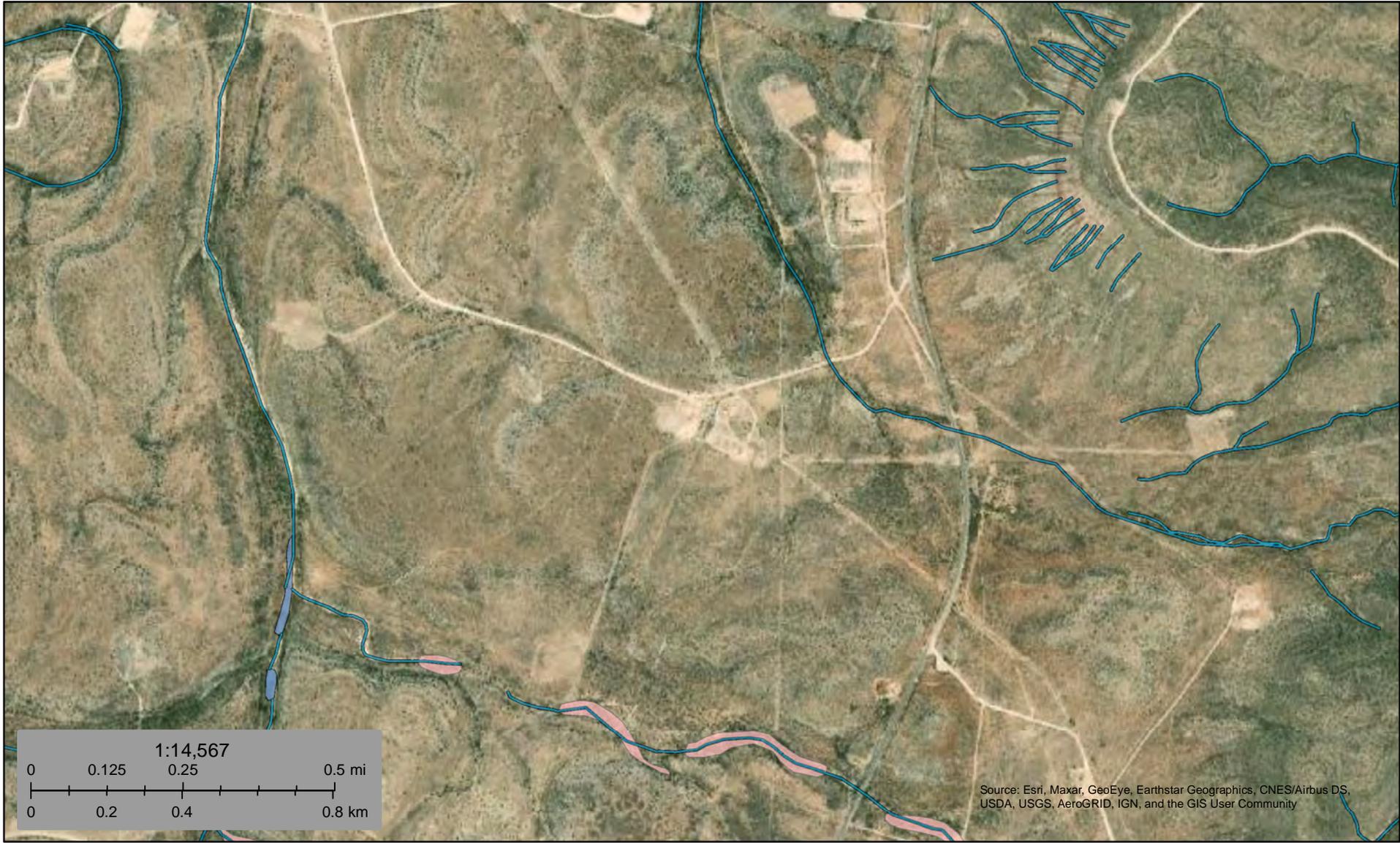
## Legend

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





# Zingaro ANG Federal Battery



July 4, 2021

### Wetlands

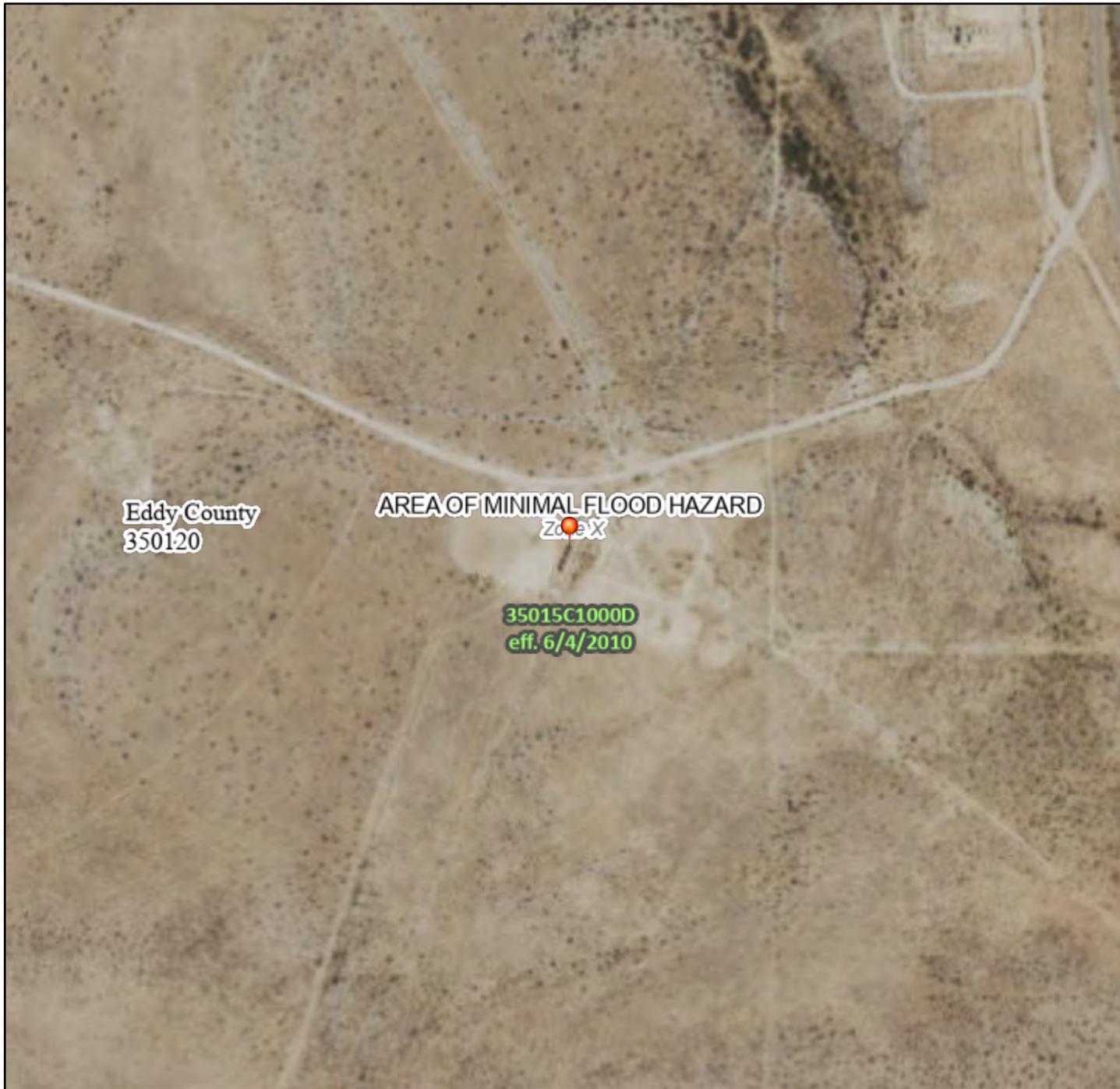
- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland
- Other
- Freshwater Pond
- Riverine

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

# National Flood Hazard Layer FIRMMette



104°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**
    - Cross Sections with 1% Annual Chance Water Surface Elevation
    - Coastal Transect
    - Base Flood Elevation Line (BFE)
    - Limit of Study
    - Jurisdiction Boundary
    - Coastal Transect Baseline
    - Profile Baseline
    - Hydrographic Feature
  - MAP PANELS**
    - Digital Data Available
    - No Digital Data Available
    - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

# 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](mailto:tina.huerta@eogresources.com)*



## 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](mailto: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](mailto: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](mailto: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](http://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](http://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
<b>EPA METHOD 300.0: ANIONS</b> Analyst: <b>VP</b>							
Chloride	ND	60		mg/Kg	20	5/26/2021 1:24:08 PM	60262
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> Analyst: <b>SB</b>							
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b> Analyst: <b>NSB</b>							
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
<b>EPA METHOD 8021B: VOLATILES</b> Analyst: <b>NSB</b>							
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
<b>EPA METHOD 300.0: ANIONS</b> Analyst: <b>VP</b>							
Chloride	ND	60		mg/Kg	20	5/26/2021 1:36:33 PM	60262
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> Analyst: <b>mb</b>							
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b> Analyst: <b>NSB</b>							
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
<b>EPA METHOD 8021B: VOLATILES</b> Analyst: <b>NSB</b>							
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.

<b>Qualifiers:</b>	* 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:** 2105952-003 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	200	60		mg/Kg	20	5/26/2021 1:48:57 PM	60262
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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:** 2105952-004 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	150	60		mg/Kg	20	5/26/2021 2:01:21 PM	60262
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/26/2021 2:13:45 PM	60262
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/26/2021 3:15:47 PM	60275
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	830	60		mg/Kg	20	5/26/2021 3:28:11 PM	60275
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1200	60		mg/Kg	20	5/26/2021 3:40:35 PM	60275
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	* 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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	100	60		mg/Kg	20	5/26/2021 3:53:00 PM	60275
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/26/2021 4:05:24 PM	60275
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

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

Sample ID: <b>LCS-60262</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60262</b>	RunNo: <b>77685</b>								
Prep Date: <b>5/26/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757776</b>	Units: <b>mg/Kg</b>							
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: <b>MB-60275</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60275</b>	RunNo: <b>77685</b>								
Prep Date: <b>5/26/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757807</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2105952

28-May-21

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

Sample ID: <b>MB-60192</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60192</b>	RunNo: <b>77590</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/22/2021</b>	SeqNo: <b>2753998</b>			Units: <b>mg/Kg</b>					
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: <b>LCS-60192</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60192</b>	RunNo: <b>77590</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/22/2021</b>	SeqNo: <b>2754005</b>			Units: <b>mg/Kg</b>					
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: <b>2105952-008AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>TP8</b>	Batch ID: <b>60193</b>	RunNo: <b>77605</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/24/2021</b>	SeqNo: <b>2754515</b>			Units: <b>mg/Kg</b>					
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: <b>2105952-008AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>TP8</b>	Batch ID: <b>60193</b>	RunNo: <b>77605</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/24/2021</b>	SeqNo: <b>2754516</b>			Units: <b>mg/Kg</b>					
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: <b>LCS-60193</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60193</b>	RunNo: <b>77605</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/24/2021</b>	SeqNo: <b>2754528</b>			Units: <b>mg/Kg</b>					
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2105952

28-May-21

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

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

Sample ID: <b>ics-60213</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60213</b>	RunNo: <b>77631</b>								
Prep Date: <b>5/24/2021</b>	Analysis Date: <b>5/25/2021</b>	SeqNo: <b>2756717</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	70	130			

Sample ID: <b>mb-60188</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60188</b>	RunNo: <b>77631</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/25/2021</b>	SeqNo: <b>2756720</b>	Units: <b>mg/Kg</b>							
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: <b>ics-60188</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60188</b>	RunNo: <b>77631</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/25/2021</b>	SeqNo: <b>2756721</b>	Units: <b>mg/Kg</b>							
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: <b>mb-60189</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60189</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757654</b>	Units: <b>mg/Kg</b>							
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: <b>ics-60189</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60189</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757655</b>	Units: <b>mg/Kg</b>							
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2105952

28-May-21

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

Sample ID: <b>2105952-008ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>TP8</b>	Batch ID: <b>60189</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757657</b>	Units: <b>mg/Kg</b>							
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: <b>2105952-008amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>TP8</b>	Batch ID: <b>60189</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757658</b>	Units: <b>mg/Kg</b>							
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: <b>mb-60246</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60246</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/25/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757678</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		92.5	70	130			

Sample ID: <b>ics-60246</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60246</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/25/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757679</b>	Units: <b>%Rec</b>							
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: <b>mb-60213</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>60213</b>		RunNo: <b>77631</b>							
Prep Date: <b>5/24/2021</b>	Analysis Date: <b>5/25/2021</b>		SeqNo: <b>2756760</b>		Units: <b>%Rec</b>					
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: <b>LCS-60213</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>60213</b>		RunNo: <b>77631</b>							
Prep Date: <b>5/24/2021</b>	Analysis Date: <b>5/25/2021</b>		SeqNo: <b>2756761</b>		Units: <b>%Rec</b>					
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: <b>mb-60188</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>60188</b>		RunNo: <b>77631</b>							
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/25/2021</b>		SeqNo: <b>2756764</b>		Units: <b>mg/Kg</b>					
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: <b>LCS-60188</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>60188</b>		RunNo: <b>77631</b>							
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/25/2021</b>		SeqNo: <b>2756765</b>		Units: <b>mg/Kg</b>					
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: <b>mb-60189</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>60189</b>		RunNo: <b>77682</b>							
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>		SeqNo: <b>2757690</b>		Units: <b>mg/Kg</b>					
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: <b>mb-60189</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60189</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757690</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-60189</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60189</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757691</b>	Units: <b>mg/Kg</b>							
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: <b>2105952-009ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>TP9</b>	Batch ID: <b>60189</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757694</b>	Units: <b>mg/Kg</b>							
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: <b>2105952-009amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>TP9</b>	Batch ID: <b>60189</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/21/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757695</b>	Units: <b>mg/Kg</b>							
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: <b>mb-60246</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60246</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/25/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757714</b>	Units: <b>%Rec</b>							
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#: 2105952

28-May-21

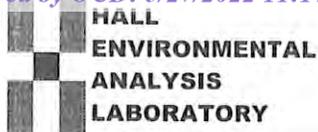
**Client:** GHD  
**Project:** Zingaro Ang Federal Battery

Sample ID: <b>mb-60246</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60246</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/25/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757714</b>	Units: <b>%Rec</b>							
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: <b>LCS-60246</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60246</b>	RunNo: <b>77682</b>								
Prep Date: <b>5/25/2021</b>	Analysis Date: <b>5/26/2021</b>	SeqNo: <b>2757715</b>	Units: <b>%Rec</b>							
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 [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: 5-21-21
(<2 or >12 unless noted)
Adjusted?
Checked by:

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.1, Good, [ ], [ ], [ ]

# Chain-of-Custody Record

Client: GHD

Mailing Address:  
3240 Main St, Suite 108, Artesia, NM 88210  
 Phone #: (505) 377-4218  
 email or Fax#: Becky.Haskell@GHD.com  
 QA/QC Package: Chase Settle @ cgsresources.com  
Tom Lawson @ GHD.com  
 Standard  Level 4 (Full Validation)  
 Accreditation  
 NELAP  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush 5 day  
 Project Name:  
21st Ave ANK Federal Building  
 Project #:  
11228201  
 Project Manager:  
Becky Haskell  
Tom Lawson  
 Sampler: Zach Combs  
 On Ice:  Yes  No  
 Sample Temperature: 0.3-0.2=0.1

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

<input checked="" type="checkbox"/>	BTEX + MIBF + TMBs (8021)	
<input checked="" type="checkbox"/>	BTEX + MTBE + TPH (Gas only)	
<input checked="" type="checkbox"/>	TPH 8015B (GRO / DRO / MRO)	
	TPH (Method 418.1)	
	EDB (Method 504.1)	
	PAH's (8310 or 8270 SIMS)	
	RCA 8 Metals	
	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	
	8081 Pesticides / 8082 PCB's	
	8260B (VOA)	
	8270 (Semi-VOA)	<u>2 Clonide Mtd 500</u>

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
<u>05/18/2021</u>	<u>1100</u>			<u>Jar</u>		<u>2105952</u>
						<u>001</u>
						<u>002</u>
						<u>003</u>
						<u>004</u>
						<u>005</u>
						<u>006</u>
						<u>007</u>
						<u>008</u>
						<u>009</u>
						<u>010</u>

Date: 05/18/2021 Time: 0815 Relinquished by: Zach Combs

Date: 5/20/21 Time: 1900 Relinquished by: Channing

Received by: Channing Date: 5/20/21 Time: 0115

Received by: Channing Date: 5/21/21 Time: 7:30

Remarks:  
 Please email zach.comino@GHD.com  
 along with others listed above  
 Direct Bill to Edg Chase Settle

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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://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](http://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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	440	59		mg/Kg	20	8/11/2021 11:07:10 AM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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		

Page 1 of 42

**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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	380	59		mg/Kg	20	8/11/2021 11:44:23 AM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	400	60		mg/Kg	20	8/11/2021 11:56:47 AM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 12:09:12 PM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 12:46:24 PM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 12:58:49 PM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	8/11/2021 1:11:13 PM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 1:23:38 PM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	8/11/2021 1:36:03 PM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 1:48:27 PM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 2:00:51 PM	61900
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 3:15:17 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	270	60		mg/Kg	20	8/11/2021 3:52:30 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	310	60		mg/Kg	20	8/11/2021 4:29:43 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	330	60		mg/Kg	20	8/11/2021 4:42:07 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	270	60		mg/Kg	20	8/11/2021 4:54:32 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 5:06:56 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	8/11/2021 5:44:09 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	8/11/2021 5:56:34 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/11/2021 6:08:58 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	240	60		mg/Kg	20	8/11/2021 6:21:22 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	210	60		mg/Kg	20	8/11/2021 6:33:46 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	120	60		mg/Kg	20	8/11/2021 6:46:10 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	500	60		mg/Kg	20	8/11/2021 6:58:35 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	130	60		mg/Kg	20	8/11/2021 7:10:59 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	64	59		mg/Kg	20	8/11/2021 7:23:23 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	450	60		mg/Kg	20	8/11/2021 7:35:48 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	66	60		mg/Kg	20	8/11/2021 8:13:01 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	150	60		mg/Kg	20	8/11/2021 8:25:26 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	200	60		mg/Kg	20	8/11/2021 8:37:50 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	210	60		mg/Kg	20	8/11/2021 8:50:14 PM	61908
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	430	60		mg/Kg	20	8/11/2021 9:27:26 PM	61909
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	440	60		mg/Kg	20	8/11/2021 9:39:51 PM	61909
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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#: 2108304

13-Aug-21

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

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

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

Sample ID: <b>LCS-61908</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61908</b>	RunNo: <b>80443</b>								
Prep Date: <b>8/11/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836540</b>	Units: <b>mg/Kg</b>							
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: <b>MB-61909</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61909</b>	RunNo: <b>80443</b>								
Prep Date: <b>8/11/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836571</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61909</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61909</b>	RunNo: <b>80443</b>								
Prep Date: <b>8/11/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836572</b>	Units: <b>mg/Kg</b>							
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108304

13-Aug-21

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

Sample ID: <b>MB-61822</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61822</b>	RunNo: <b>80403</b>								
Prep Date: <b>8/6/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833764</b>			Units: <b>mg/Kg</b>					
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: <b>LCS-61822</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61822</b>	RunNo: <b>80403</b>								
Prep Date: <b>8/6/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833765</b>			Units: <b>mg/Kg</b>					
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: <b>MB-61835</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61835</b>	RunNo: <b>80451</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835861</b>			Units: <b>mg/Kg</b>					
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: <b>LCS-61835</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61835</b>	RunNo: <b>80451</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835863</b>			Units: <b>mg/Kg</b>					
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: <b>2108304-018AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SW-14</b>	Batch ID: <b>61835</b>	RunNo: <b>80451</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835865</b>			Units: <b>mg/Kg</b>					
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: <b>2108304-018AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SW-14</b>	Batch ID: <b>61835</b>	RunNo: <b>80451</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835867</b>	Units: <b>mg/Kg</b>							
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: <b>MB-61856</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61856</b>	RunNo: <b>80429</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2836040</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		129	70	130			

Sample ID: <b>LCS-61856</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61856</b>	RunNo: <b>80429</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2836041</b>	Units: <b>%Rec</b>							
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: <b>LCS-61834</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61834</b>	RunNo: <b>80463</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836329</b>	Units: <b>mg/Kg</b>							
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: <b>MB-61834</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61834</b>	RunNo: <b>80463</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836332</b>	Units: <b>mg/Kg</b>							
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108304

13-Aug-21

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

Sample ID: <b>mb-61829</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61829</b>	RunNo: <b>80405</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833801</b>	Units: <b>mg/Kg</b>							
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: <b>ics-61829</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61829</b>	RunNo: <b>80405</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833802</b>	Units: <b>mg/Kg</b>							
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: <b>2108304-030ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-7</b>	Batch ID: <b>61829</b>	RunNo: <b>80405</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833805</b>	Units: <b>mg/Kg</b>							
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: <b>2108304-030amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-7</b>	Batch ID: <b>61829</b>	RunNo: <b>80405</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833806</b>	Units: <b>mg/Kg</b>							
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: <b>mb-61814</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61814</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/6/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834069</b>	Units: <b>mg/Kg</b>							
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: <b>ics-61814</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61814</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/6/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834070</b>	Units: <b>mg/Kg</b>							
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#: 2108304

13-Aug-21

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

Sample ID: <b>ics-61814</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61814</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/6/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834070</b>	Units: <b>mg/Kg</b>							
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: <b>mb-61828</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61828</b>	RunNo: <b>80440</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835419</b>	Units: <b>mg/Kg</b>							
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: <b>mb-61849</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61849</b>	RunNo: <b>80440</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835420</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	850		1000		85.0	70	130			

Sample ID: <b>ics-61828</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61828</b>	RunNo: <b>80440</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835421</b>	Units: <b>mg/Kg</b>							
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: <b>ics-61849</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61849</b>	RunNo: <b>80440</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835422</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		98.6	70	130			

Sample ID: <b>2108304-010ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SW-23</b>	Batch ID: <b>61828</b>	RunNo: <b>80440</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835423</b>	Units: <b>mg/Kg</b>							
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108304

13-Aug-21

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

Sample ID: <b>2108304-010amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SW-23</b>	Batch ID: <b>61828</b>	RunNo: <b>80440</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835425</b> Units: <b>mg/Kg</b>								
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.              | 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#: 2108304

13-Aug-21

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

Sample ID: <b>mb-61829</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61829</b>	RunNo: <b>80405</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833842</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-61829</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61829</b>	RunNo: <b>80405</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833843</b>	Units: <b>mg/Kg</b>							
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: <b>2108304-031ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-8</b>	Batch ID: <b>61829</b>	RunNo: <b>80405</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833847</b>	Units: <b>mg/Kg</b>							
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: <b>2108304-031amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-8</b>	Batch ID: <b>61829</b>	RunNo: <b>80405</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2833848</b>	Units: <b>mg/Kg</b>							
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

**QC SUMMARY REPORT**

WO#: 2108304

**Hall Environmental Analysis Laboratory, Inc.**

13-Aug-21

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

Sample ID: <b>mb-61814</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61814</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/6/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834094</b>			Units: <b>mg/Kg</b>					
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: <b>mb-61828</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61828</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834095</b>			Units: <b>mg/Kg</b>					
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: <b>lcs-61814</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61814</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/6/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834096</b>			Units: <b>mg/Kg</b>					
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: <b>lcs-61828</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61828</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834097</b>			Units: <b>mg/Kg</b>					
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

Page 41 of 42

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108304

13-Aug-21

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

Sample ID: <b>2108304-011ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SW-7</b>	Batch ID: <b>61828</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834099</b>	Units: <b>mg/Kg</b>							
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: <b>2108304-011amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SW-7</b>	Batch ID: <b>61828</b>	RunNo: <b>80409</b>								
Prep Date: <b>8/7/2021</b>	Analysis Date: <b>8/9/2021</b>	SeqNo: <b>2834101</b>	Units: <b>mg/Kg</b>							
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: <b>mb-61849</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61849</b>	RunNo: <b>80440</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835564</b>	Units: <b>%Rec</b>							
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: <b>lcs-61849</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61849</b>	RunNo: <b>80440</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2835565</b>	Units: <b>%Rec</b>							
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

*CC*

Completed By: **Isaiah Ortiz** 8/6/2021 9:07:53 AM

*IO*

Reviewed By: *SPA 8.6.21*

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

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: *KPH 8/6/21*

### Special Handling (if applicable)

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

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](mailto:Becky.Haskell@ghd.com)

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

Turn-Around Time:

Standard  Rush 5-8 days

Project Name:

Zinsgar AN6 Federal Bldg

Project #

11228201

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice  Yes  No

# of Coolers: 3

Cooler Temp (including on): 31-0-31

Container Type and #

Preservative Type

HEAL No.

2168304

Jar

SW-1

SW-2

SW-3

SW-4

SW-5

SW-6

SW-20

SW-21

SW-22

SW-23

SW-7

SW-8

1230

1235

1240

1245

1250

1255

1300

1305

1310

1315

1320

1325

0800

0800

1900

Zach Comino

## Analysis Request

RTX / MTBE / TMS (6021)

TPH 8015D/GRO/DRO/MFO

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

2

2

3

4

5

6

7

8

9

10

11

12

13

14

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

Direct Bill to EOG Chase Settle

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



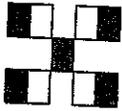
3A3

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



Turn-Around Time:  Standard  Rush 5-Day

Project Name: Zinsgar ANG Elevated Bathy

Project #0: 11228201

Project Manager: Becky Haskell

Project Manager: Tom Larson

Sampler: Zach Comino

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including of): 3.0 3.1

Container Type and # Jar Preservative Type Z108304

HEAL No: 25 26 27 28 29 30 31 32 33

Project Manager: Becky Haskell

Project Manager: Tom Larson

QA/QC Package:  Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  NELAC  Other

EDD (Type):

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No
1430	S		BH-2			25
1435	A		BH-3			26
1440			BH-4			27
1445			BH-5			28
1450			BH-6			29
1510			BH-7			30
1515			BH-8			31
1520			BH-9			32
1530			BH-10			33

Date: 05/27/2022 Time: 0800 Relinquished by: Zach Comino

Date: 05/27/2022 Time: 0800 Relinquished by: Zach Comino

Date: 05/27/2022 Time: 0758 Relinquished by: Zach Comino

Analysis Request

8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 2:41:36 AM	61936
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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		

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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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	170	60		mg/Kg	20	8/13/2021 3:18:38 AM	61936
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 3:30:57 AM	61936
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 4:08:01 AM	61936
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 8:31:46 AM	61952
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	130	60		mg/Kg	20	8/13/2021 8:44:07 AM	61952
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 8:56:29 AM	61952
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	90	60		mg/Kg	20	8/13/2021 9:08:49 AM	61952
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	770	59		mg/Kg	20	8/13/2021 9:21:10 AM	61952
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	59		mg/Kg	20	8/13/2021 9:33:31 AM	61952
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 9:45:52 AM	61952
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 10:19:20 PM	61964
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 10:31:40 PM	61964
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	* 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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 10:44:01 PM	61964
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 10:56:22 PM	61964
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	8/13/2021 11:08:43 PM	61964
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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:** 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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	64	60		mg/Kg	20	8/13/2021 11:21:04 PM	61964
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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:** 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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	100	60		mg/Kg	20	8/13/2021 11:33:24 PM	61964
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

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

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

Sample ID: <b>LCS-61952</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61952</b>	RunNo: <b>80531</b>								
Prep Date: <b>8/13/2021</b>	Analysis Date: <b>8/13/2021</b>	SeqNo: <b>2839735</b>	Units: <b>mg/Kg</b>							
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: <b>MB-61964</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61964</b>	RunNo: <b>80533</b>								
Prep Date: <b>8/13/2021</b>	Analysis Date: <b>8/13/2021</b>	SeqNo: <b>2839814</b>	Units: <b>mg/Kg</b>							
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: <b>MB-61861</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61861</b>	RunNo: <b>80429</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2836003</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-61861</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61861</b>	RunNo: <b>80429</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2836004</b>	Units: <b>mg/Kg</b>							
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: <b>MB-61856</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61856</b>	RunNo: <b>80429</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2836040</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		129	70	130			

Sample ID: <b>LCS-61856</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61856</b>	RunNo: <b>80429</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/10/2021</b>	SeqNo: <b>2836041</b>	Units: <b>%Rec</b>							
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: <b>MB-61913</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61913</b>	RunNo: <b>80484</b>								
Prep Date: <b>8/11/2021</b>	Analysis Date: <b>8/12/2021</b>	SeqNo: <b>2837574</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-61913</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61913</b>	RunNo: <b>80484</b>								
Prep Date: <b>8/11/2021</b>	Analysis Date: <b>8/12/2021</b>	SeqNo: <b>2837575</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-61913</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61913</b>	RunNo: <b>80484</b>								
Prep Date: <b>8/11/2021</b>	Analysis Date: <b>8/12/2021</b>	SeqNo: <b>2837575</b>	Units: <b>mg/Kg</b>							
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108367

17-Aug-21

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

Sample ID: <b>mb-61859</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>61859</b>		RunNo: <b>80471</b>							
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>		SeqNo: <b>2836828</b>		Units: <b>mg/Kg</b>					
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: <b>lcs-61859</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>61859</b>		RunNo: <b>80471</b>							
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>		SeqNo: <b>2836867</b>		Units: <b>mg/Kg</b>					
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: <b>2108367-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BH-11</b>	Batch ID: <b>61859</b>		RunNo: <b>80471</b>							
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>		SeqNo: <b>2836869</b>		Units: <b>mg/Kg</b>					
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: <b>2108367-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BH-11</b>	Batch ID: <b>61859</b>		RunNo: <b>80471</b>							
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>		SeqNo: <b>2836871</b>		Units: <b>mg/Kg</b>					
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: <b>mb-61859</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61859</b>	RunNo: <b>80471</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836911</b>	Units: <b>mg/Kg</b>							
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			

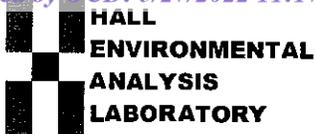
Sample ID: <b>ics-61859</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61859</b>	RunNo: <b>80471</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836913</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	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: <b>2108367-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-12</b>	Batch ID: <b>61859</b>	RunNo: <b>80471</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836915</b>	Units: <b>mg/Kg</b>							
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: <b>2108367-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-12</b>	Batch ID: <b>61859</b>	RunNo: <b>80471</b>								
Prep Date: <b>8/9/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836917</b>	Units: <b>mg/Kg</b>							
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 RptNo: 1

Received By: Sean Livingston 8/7/2021 9:10:00 AM

Signature

Completed By: Sean Livingston 8/7/2021 10:06:07 AM

Signature

Reviewed By: [Signature] 08/07/2021

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: SLL 8/7/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1-3.

1 of 2

# 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](mailto:Becky.Haskell@ghd.com)

QAV/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush 5-day

Project Name:  
Zigzags ANG Edward Batley

Project #:  
11228201

Project Manager:  
 Becky Haskell  
 Tom Larson

Sampler: Zach Comino

On Ice:  Yes  No

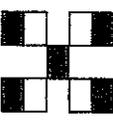
# of Coolers: 3

Cooler Temp (including C.F.): see remarks

Container Type and #  
Jar

Preservative Type  
Z109267

HEAL No.  
2109267



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

**Analysis Request**

PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<u>Chloride Method 500</u>

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
08/02/21	1025	S	BH-11	Jar		2109267
	1030		BH-12			001
	1035		BH-13			002
	1040		BH-14			003
	1045		BH-15			004
	1050		BH-16			005
	1055		BH-17			006
	1230		BH-18			007
	1235		BH-19			008
	1320		BH-20			009
	1325		BH-21			010
	1330		BH-22			011
						012

Date: 08/02/21 Time: 0800 Relinquished by: Zach Comino

Date: 8/10/21 Time: 1900 Relinquished by: Zach Comino

Received by: William Date: 8/10/21 Time: 900

Received by: See courier Date: 8/7/21 Time: 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.  
 0.4 ± 0 = 0.4  
 2.8 ± 0 = 2.8 Direct Bill to EOG Chase Settle

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

# Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

email or Fax#: [Becky.Haskell@ghd.com](mailto:Becky.Haskell@ghd.com)

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

Turn-Around Time:

Standard  Rush 5-day

Project Name:

Zach Comino ANG Edward Bailey

Project#:

11228201

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice:  Yes  No

# of Coolers: 3

Cooler Temp (including CFJ): See remarks

Container Type and #

Preservative Type

HEAL No.

Jar

013

014

015

016

017

018

Date Time Matrix Sample Name

080521 1345 S BH-23

1250 BH-24

1400 BH-25

1410 BH-26

1430 SW-24

1440 SW-25

Date: 080521 0800

Relinquished by: Zach Comino

Via: air courier

Date Time

8/6/21 800

Date: 8/6/21 1400

Relinquished by: Becky Haskell

Via: air courier

Date Time

8/7/21 9:10

## Analysis Request

8081 Pesticides/8082 PCB's  
 EDB (Method 504.1)  
 PAHs by 8310 or 8270SIMS  
 RCRA 8 Metals  
 Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>  
 8260 (VOA)  
 8270 (Semi-VOA)  
 Total Coliform (Present/Absent)

PFH:8015D(GRO/DRQ/MR3)  
BTEX/MTBE/TMB's(8024)

Chloride Nitro 300

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.

0.6 ± 0 = 0.6

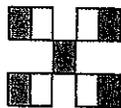
2.4 ± 0 = 2.8

51.7 ± 0 = 4.7

Direct Bill to EOG Chase Settle

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

2 of 2



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



Hall Environmental Analysis Laboratory  
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Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://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](http://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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/20/2021 2:24:19 PM	62096
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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		

**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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/20/2021 2:36:44 PM	62096
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/20/2021 3:13:59 PM	62096
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/20/2021 3:26:23 PM	62096
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	83	60		mg/Kg	20	8/20/2021 3:38:48 PM	62096
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/20/2021 3:51:12 PM	62096
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/20/2021 4:03:37 PM	62096
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	59		mg/Kg	20	8/20/2021 4:16:01 PM	62096
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
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.

<b>Qualifiers:</b>	* 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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/20/2021 4:28:27 PM	62096
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
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.

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

Sample ID: <b>LCS-62096</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62096</b>	RunNo: <b>80680</b>								
Prep Date: <b>8/20/2021</b>	Analysis Date: <b>8/20/2021</b>	SeqNo: <b>2846897</b>	Units: <b>mg/Kg</b>							
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: <b>MB-62028</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62028</b>	RunNo: <b>80620</b>								
Prep Date: <b>8/17/2021</b>	Analysis Date: <b>8/18/2021</b>	SeqNo: <b>2844115</b>	Units: <b>mg/Kg</b>							
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: <b>MB-62022</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62022</b>	RunNo: <b>80624</b>								
Prep Date: <b>8/17/2021</b>	Analysis Date: <b>8/18/2021</b>	SeqNo: <b>2844795</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-62022</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62022</b>	RunNo: <b>80624</b>								
Prep Date: <b>8/17/2021</b>	Analysis Date: <b>8/18/2021</b>	SeqNo: <b>2844798</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-62028</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62028</b>	RunNo: <b>80662</b>								
Prep Date: <b>8/17/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2845395</b>	Units: <b>mg/Kg</b>							
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: <b>MB-62095</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62095</b>	RunNo: <b>80691</b>								
Prep Date: <b>8/20/2021</b>	Analysis Date: <b>8/20/2021</b>	SeqNo: <b>2846661</b>	Units: <b>%Rec</b>							
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: <b>LCS-62095</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62095</b>	RunNo: <b>80691</b>								
Prep Date: <b>8/20/2021</b>	Analysis Date: <b>8/20/2021</b>	SeqNo: <b>2846662</b>	Units: <b>%Rec</b>							
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.              | 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: <b>mb-62002</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62002</b>	RunNo: <b>80628</b>								
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/18/2021</b>	SeqNo: <b>2844295</b>	Units: <b>mg/Kg</b>							
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: <b>lcs-62002</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62002</b>	RunNo: <b>80628</b>								
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/18/2021</b>	SeqNo: <b>2844297</b>	Units: <b>mg/Kg</b>							
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.              | 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: <b>mb-62002</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62002</b>	RunNo: <b>80628</b>								
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/18/2021</b>	SeqNo: <b>2844329</b>	Units: <b>mg/Kg</b>							
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: <b>ics-62002</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62002</b>	RunNo: <b>80628</b>								
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/18/2021</b>	SeqNo: <b>2844331</b>	Units: <b>mg/Kg</b>							
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.              | 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: <b>ics-62009</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>62009</b>		RunNo: <b>80737</b>							
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/23/2021</b>		SeqNo: <b>2849154</b>		Units: <b>mg/Kg</b>					
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: <b>mb-62009</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>PBS</b>	Batch ID: <b>62009</b>		RunNo: <b>80737</b>							
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/23/2021</b>		SeqNo: <b>2849155</b>		Units: <b>mg/Kg</b>					
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

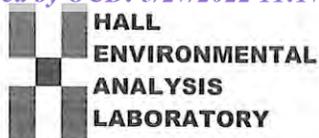
**Client:** GHD Midland  
**Project:** Zingavo ANG Federal Battery

Sample ID: <b>ics-62009</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>62009</b>		RunNo: <b>80737</b>							
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/23/2021</b>		SeqNo: <b>2848444</b>		Units: <b>mg/Kg</b>					
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: <b>mb-62009</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>62009</b>		RunNo: <b>80737</b>							
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/23/2021</b>		SeqNo: <b>2848446</b>		Units: <b>mg/Kg</b>					
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: CO

8/14/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: 8-14-21 (<2 or >12 unless noted) Adjusted? Checked by:

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 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](http://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](http://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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/20/2021 8:24:15 PM	62096
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
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.

<b>Qualifiers:</b>	*	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:** 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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/22/2021 1:37:52 PM	62110
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
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.

<b>Qualifiers:</b>	* 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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	74	61		mg/Kg	20	8/22/2021 1:50:17 PM	62110
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/22/2021 2:02:42 PM	62110
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
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.

<b>Qualifiers:</b>	*	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/22/2021 2:39:55 PM	62110
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	8/22/2021 2:52:19 PM	62110
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
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.

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

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

Sample ID: <b>LCS-62110</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62110</b>	RunNo: <b>80705</b>								
Prep Date: <b>8/22/2021</b>	Analysis Date: <b>8/22/2021</b>	SeqNo: <b>2847037</b>	Units: <b>mg/Kg</b>							
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108923

24-Aug-21

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

Sample ID: <b>2108923-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SW-17A</b>	Batch ID: <b>62059</b>	RunNo: <b>80660</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2845361</b>	Units: <b>mg/Kg</b>							
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: <b>2108923-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SW-17A</b>	Batch ID: <b>62059</b>	RunNo: <b>80660</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2845362</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-62059</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62059</b>	RunNo: <b>80660</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2845382</b>	Units: <b>mg/Kg</b>							
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: <b>MB-62059</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62059</b>	RunNo: <b>80660</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2845383</b>	Units: <b>mg/Kg</b>							
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108923

24-Aug-21

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

Sample ID: <b>ics-62057</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>62057</b>		RunNo: <b>80674</b>							
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>		SeqNo: <b>2846131</b>		Units: <b>mg/Kg</b>					
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: <b>mb-62057</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>62057</b>		RunNo: <b>80674</b>							
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>		SeqNo: <b>2846132</b>		Units: <b>mg/Kg</b>					
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: <b>2108923-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SW-17A</b>	Batch ID: <b>62057</b>		RunNo: <b>80674</b>							
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>		SeqNo: <b>2846134</b>		Units: <b>mg/Kg</b>					
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: <b>2108923-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SW-17A</b>	Batch ID: <b>62057</b>		RunNo: <b>80674</b>							
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>		SeqNo: <b>2846135</b>		Units: <b>mg/Kg</b>					
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: <b>ics-62065</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>62065</b>		RunNo: <b>80674</b>							
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>		SeqNo: <b>2846155</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	70	130			

Sample ID: <b>mb-62065</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>62065</b>		RunNo: <b>80674</b>							
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>		SeqNo: <b>2846156</b>		Units: <b>%Rec</b>					
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: <b>ics-62057</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62057</b>	RunNo: <b>80674</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2846171</b>	Units: <b>mg/Kg</b>							
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: <b>mb-62057</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62057</b>	RunNo: <b>80674</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2846172</b>	Units: <b>mg/Kg</b>							
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: <b>2108923-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SW-19A</b>	Batch ID: <b>62057</b>	RunNo: <b>80674</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2846175</b>	Units: <b>mg/Kg</b>							
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: <b>2108923-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SW-19A</b>	Batch ID: <b>62057</b>	RunNo: <b>80674</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2846176</b>	Units: <b>mg/Kg</b>							
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

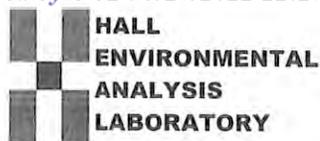
**Client:** GHD Midland  
**Project:** Zingavo ANG Federal Battery

Sample ID: <b>ics-62065</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62065</b>	RunNo: <b>80674</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2846195</b>	Units: <b>%Rec</b>							
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: <b>mb-62065</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62065</b>	RunNo: <b>80674</b>								
Prep Date: <b>8/18/2021</b>	Analysis Date: <b>8/19/2021</b>	SeqNo: <b>2846196</b>	Units: <b>%Rec</b>							
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



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

*Cason*

Completed By: **Sean Livingston** 8/18/2021 8:47:52 AM

*Sean Livingston*

Reviewed By: *JR 8/18/21*

#### 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° 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good				

# Chain-of-Custody Record

Client: GHD  
 Mailing Address:  
 324 W. Main St. Suite 108, Artesia NM 88210  
 Phone #: (505)377-4218  
 email or Fax#: [Becky.Haskell@ghd.com](mailto:Becky.Haskell@ghd.com)  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
08/21	12:55	S	SW-17A	Jaw		2108923
	1240		SW-19A			001
	1250		ISH-SA			002
	1255		BA-8A			003
	1305		ISH-17A			004
	1310		ISH-19A			005
						006

Turn-Around Time:  Standard  Rush 5-day  
 Project Name: Zach Comino  
 Project #: 11228201  
 Project Manager: Becky Haskell  
 Tom Larson  
 Sampler: Zach Comino  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 5.5 - 0.1 = 5.4  
 Container Type and #  
 Preservative Type  
 HEAL No.  
 Received by: Zach Comino Date: 8/17/21 Time: 1400  
 Relinquished by: Zach Comino  
 Received by: Becky Haskell Date: 8/17/21 Time: 1900

Analysis Request  
 BTEX / MTBE / TMB's (8024)   
 PH: 8015D(GRO / DRO / MRO)   
 8081 Pesticides/8082 PCB's  
 EDB (Method 504.1)  
 PAHs by 8310 or 8270SIMS  
 RCRA 8 Metals  
 Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>  
 8260 (VOA)  
 8270 (Sem-VOA)  
 Total Coliform (Present/Absent) 6 chloride method 300



www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

Remarks: Please email: [Chase\\_Settle@eogresources.com](mailto:Chase_Settle@eogresources.com);  
[Tom.Larson@ghd.com](mailto:Tom.Larson@ghd.com); [Zach.Comino@ghd.com](mailto:Zach.Comino@ghd.com)  
[Matthew.Laughlin@ghd.com](mailto:Matthew.Laughlin@ghd.com); Along with Becky Haskell listed above.  
 Direct Bill to EOG Chase Settle

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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	85	60		mg/Kg	20	3/3/2022 1:34:53 PM	65919
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	73	60		mg/Kg	20	3/3/2022 2:12:05 PM	65919
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	170	59		mg/Kg	20	3/3/2022 2:24:29 PM	65919
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	100	60		mg/Kg	20	3/3/2022 2:36:54 PM	65919
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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-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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	86	60		mg/Kg	20	3/3/2022 2:49:19 PM	65919
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	240	60		mg/Kg	20	3/3/2022 3:26:32 PM	65919
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	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: <b>MB-65919</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65919</b>	RunNo: <b>86224</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/3/2022</b>	SeqNo: <b>3040668</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65919</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65919</b>	RunNo: <b>86224</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/3/2022</b>	SeqNo: <b>3040669</b>	Units: <b>mg/Kg</b>							
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.
- 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: <b>LCS-65852</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65852</b>	RunNo: <b>86180</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3038792</b>	Units: <b>mg/Kg</b>							
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: <b>MB-65852</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65852</b>	RunNo: <b>86180</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3038794</b>	Units: <b>mg/Kg</b>							
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: <b>mb-65809</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65809</b>	RunNo: <b>86141</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3035700</b>	Units: <b>mg/Kg</b>							
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: <b>lcs-65809</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65809</b>	RunNo: <b>86141</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3035701</b>	Units: <b>mg/Kg</b>							
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: <b>mb-65809</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65809</b>	RunNo: <b>86141</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3035742</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-65809</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65809</b>	RunNo: <b>86141</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3035743</b>	Units: <b>mg/Kg</b>							
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:**

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- 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
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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

Handwritten signature

Completed By: Desiree Dominguez 2/25/2022 8:20:25 AM

Handwritten signature

Reviewed By: [Handwritten initials]

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

Person Notified: Date: By Whom: Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 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