

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2111040373,
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 32.44649 Longitude -104.49013
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pan Am Pardue AIZ Federal #1	Site Type Battery
Date Release Discovered 04/07/2021	API# (if applicable) 30-015-10728

Unit Letter	Section	Township	Range	County
N	27	21S	24E	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

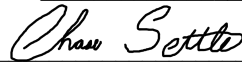
Historical impacts discovered during the P&A of the well. Release volume and date are unknown.

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Chase Settle</u>	Title: <u>Rep Safety & Environmental Sr</u>
Signature: <u></u>	Date: <u>04/19/2021</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

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

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

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

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

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


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

State of New Mexico
Oil Conservation Division

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature:  Date: 08/31/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

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

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

Printed Name: Chase SettleTitle: Rep Safety & Environmental SrSignature: Date: 08/31/2021email: Chase_Settle@eogresources.comTelephone: 575-748-1471**OCD Only**

Received by: _____ Date: _____

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

Signature: _____

Date: _____

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

Our ref: 11228315

August 31, 2021

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

Re: **Site Characterization and Remediation Work Plan (Backfill Request)**
Pan Am Pardue AIZ Federal #1 Release Site
EOG Resources Inc.
Incident ID: nAPP2111040373
N-27-21S-24E, Eddy County, New Mexico

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Remediation Work Plan (Backfill Request) 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 Pan Am AIZ Federal #1 Release Site (Site). The Site is located in Unit Letter N Section 27 of Township 21 South and Range 24 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.44649 N latitude and 104.49013 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 19, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff – EOG made the decision to go ahead and file a C-141 for this suspect release location.

The Initial Form C-141, Site Assessment/Characterization and Remediation Plan portions of Form C-141 for Incident Number nAPP2111040373 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	10mg/kg
BTEX	50 mg/kg

4. Initial Soil Delineation Assessment Summary and Findings

On May 17, 2021, GHD Services Inc. (GHD) and EOG's contractor BDS Enterprises, LLC (BDS), on behalf of EOG, installed seven (7) test pits within the former tank battery containment at the Site. The test pit locations were excavated to approximately one (1) foot below ground surface (bgs) with samples collected from the bottom of the test pits.

All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Five of the seven soil samples exceeded applicable NMAC Table 3.1 Closure Criteria, TP1, TP3, TP5, TP6 and TP7. Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

5. Excavation, Waste Management and Confirmation Sampling

Due to the preliminary soil sampling activities exhibiting TPH exceedance above the closure criteria in the above Table 3.1 values, GHD and BDS returned to the site on June 3, 2021, to excavate the affected soils. Two distinct contaminated portions (**Area A** and **Area B**) were separated by a (30) foot long strand of

uncontaminated soil within the containment area. As shown in Figure 3, two sidewall and eleven bottom hole confirmation composite samples were collected in **Area A** (BH-1 through BH-11, SW-1 and SW-2), while two sidewall and two bottom hole composite confirmation samples were collected in **Area B** (BH-12, BH-13, SW-3 & SW-4). 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. Confirmation samples collected represented areas no greater than (200) square feet. Laboratory Analytical Reports and Chain-of- Custody Documentation are provided in Attachment C. Analytical results are summarized in attached Table 1.

On June 3 and 4, 2021, thirteen (13) bottom hole composite confirmation samples (BH-1 through BH-13) and four (4) sidewall composite confirmation samples (SW-1 through SW-4) were collected from areas representing no more than 200 square feet. A hard bedrock layer was encountered at depths ranging from approximately eight (8) inches to two (2) feet bgs. Analytical results indicated eleven (11) out of seventeen (17) confirmation samples (**Area A:** BH-2, BH-3, BH-4, BH-8, BH-9, BH-10, BH-11, SW-1 and SW-2 / **Area B:** BH-13 and SW-3) had TPH concentrations above NMAC Table 1 Closure Criteria for depth to groundwater less than or equal to fifty (50) feet. None of the composite confirmation samples exhibited benzene, BTEX or chloride concentrations above Table 1 closure criteria.

GHD and Culberson Construction Energy Services (CCI) returned to the site on June 18, 2021, to conduct further remediation activities and to re-sample areas that had previously exceeded Table 1 concentrations. Composite confirmation samples were collected by use of backhoe which assisted in scraping collectable samples off the bedrock. Eight (8) bottom hole (BH-2A, BH-3A, BH-4A, BH-8A through BH-11A, and BH-13A) and three (3) sidewall (SW-1A through SW-3A) samples were collected from areas representing no more than 200 square feet. Samples were then taken to HEAL in Albuquerque, New Mexico. Analytical results indicated five (5) samples (BH-2A, BH-3A, BH-8A, BH-9A, and BH-13A) had Total TPH concentrations exceeding Table 1 closure criteria. No samples exhibited benzene, BTEX or chloride concentrations above Table 1 closure criteria.

On July 9, 2021, GHD and CCI returned to the site after further remediation activities to re-sample the locations that had Total TPH concentrations that exceeded Table 1 closure criteria (**Area A:** BH-2A, BH-3A, BH-8A, BH-9A / **Area B:** BH-13A). This involved a trackhoe with a hammer attachment to gather collectable samples from the bedrock. The bedrock was swept free of debris before any samples were collected. Composite confirmation samples BH-2B, BH-3B, BH-8B, BH-9B, and BH-13B were collected from areas representing no more than 200 square feet and were submitted to HEAL in Albuquerque, New Mexico. Analytical results indicated two samples (**Area A:** BH-8B and BH-9B) still had Total TPH concentrations above Table 1 closure criteria. No samples exhibited benzene, BTEX or chloride concentrations above Table 1 closure criteria.

The two areas represented by soil samples (**Area A:** BH-8B and BH-9B) were further hammered out and re-sampled on July 20, 2021. Re-samples (**Area A:** BH-8 and BH-9) indicated chloride, TPH, benzene and BTEX concentrations were below NMAC Table 1 closure criteria.

Waste management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 252 tons of impacted soil and rock were disposed at Lea Land, LLC. The waste manifests from June 4 and August 9-10, 2021, shipping dates are provided in Attachment D.

6. nAPP2111040373 Proposed Work Plan

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 200 square feet and final confirmation samples exhibited concentrations below Table 1 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 nAPP2111040373 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 to backfill the excavation with clean non-impacted material so site reclamation can be completed.

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

Sincerely,

GHD



Becky Haskell
Senior Project Manager



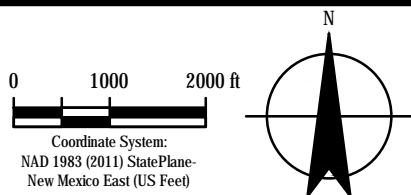
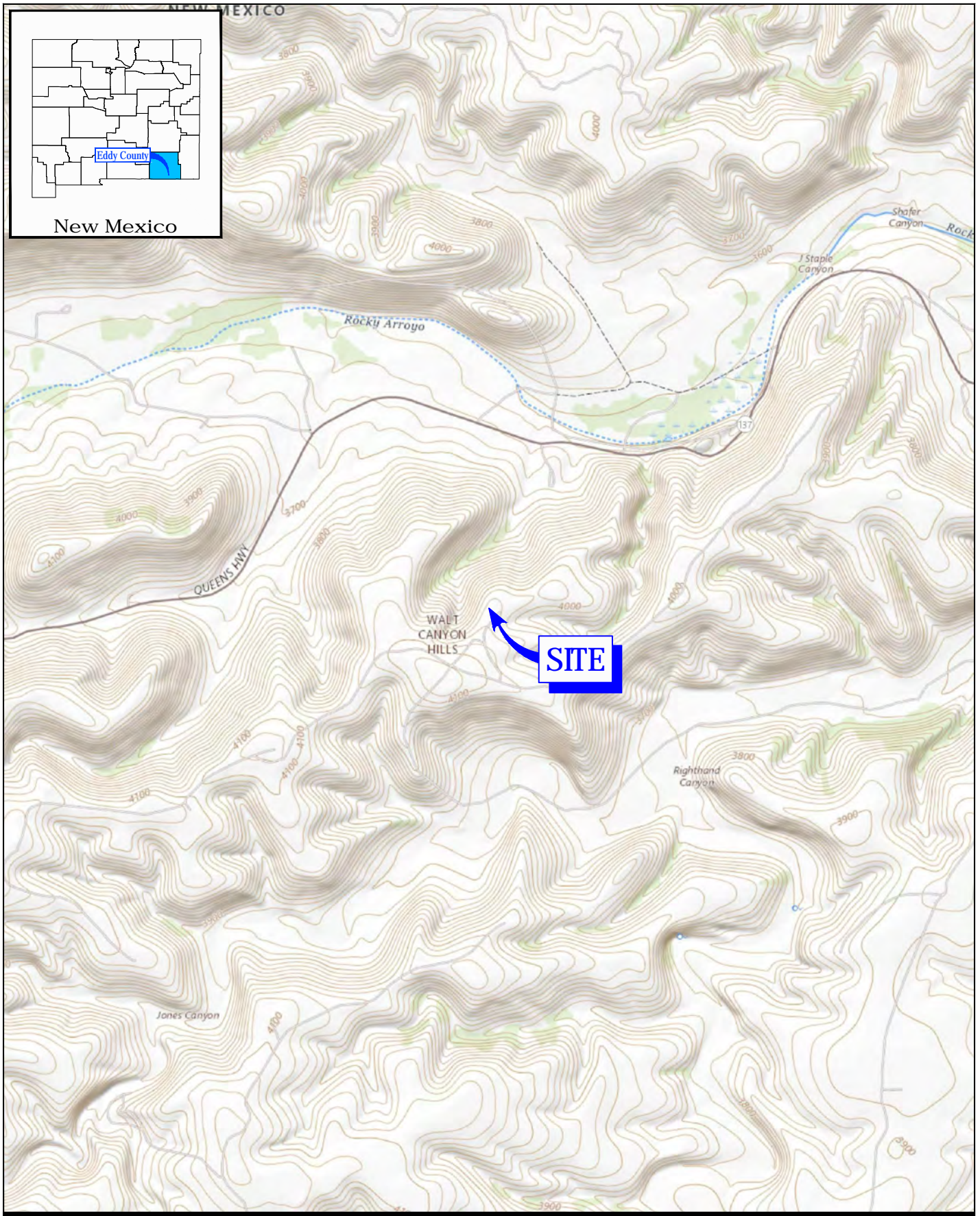
Thomas C. Larson, M.S.
Midland Operation Manager

BH/tl/1

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

cc: Chase Settle

Figures



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
PAN AM AIZ FEDERAL No. 1

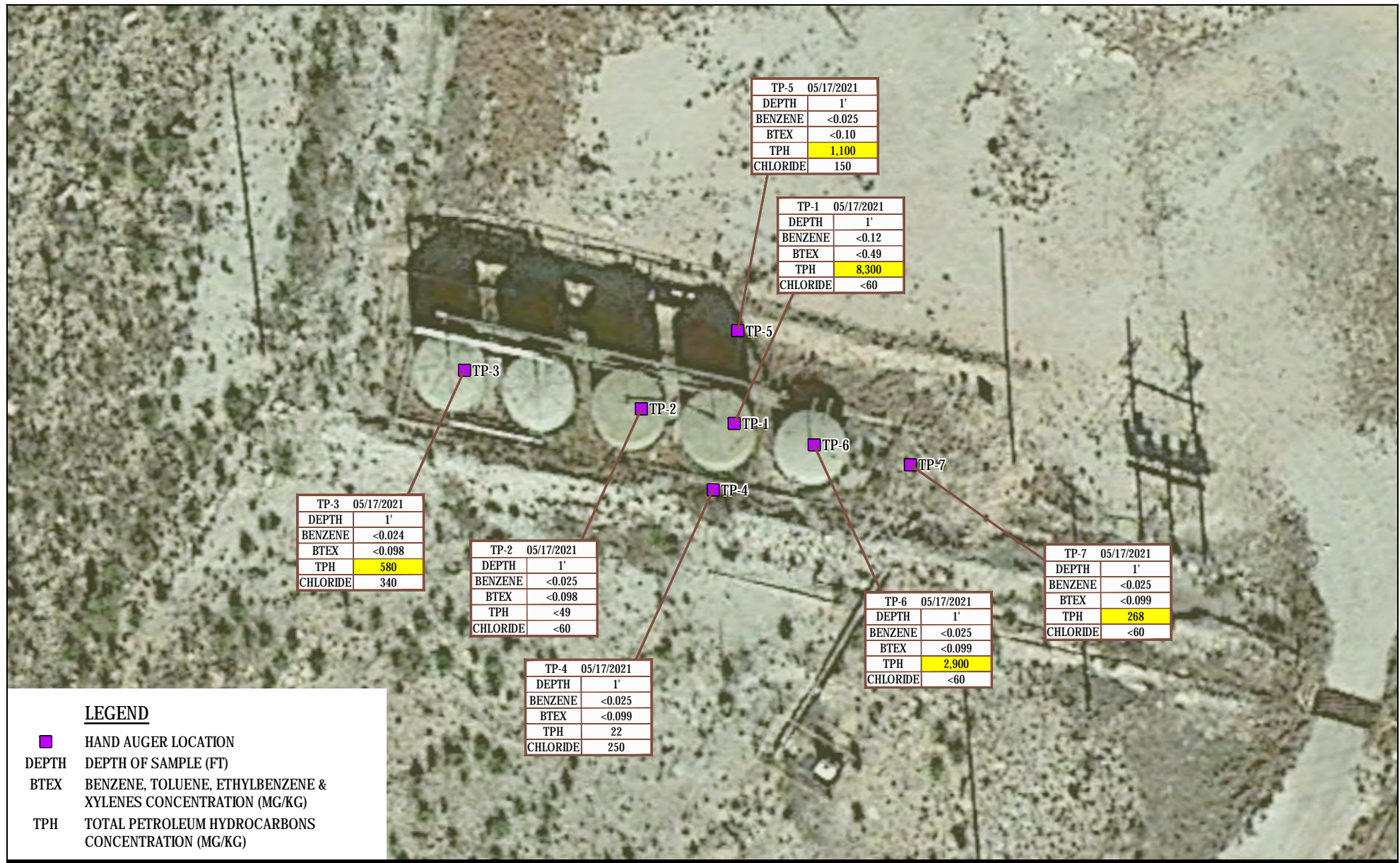
Project No. 11228315
Date August 2021

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\field\US\Midland\Projects\589\11228315\Digital_Documents\ACAD\2018\Figures\11228315-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Azotea Peak and Martha Creek, New Mexico"
Lat/Long: 32.446270 North, 104.400889 West

**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
PAN AM AIZ FEDERAL No. 1

Project No. 11228315
Date August 2021

SITE ASSESSMENT:
SOIL ANALYTICAL RESULTS MAP

FIGURE 2



Tables

Table 1
Summary of Soil Analytical Data
Pan Am AIZ Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table 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
Test Pit Samples												
TP1	5/17/21	1	<0.12	<0.25	<0.25	<0.49	<0.49	<25	3,800	4,500	8,300	<60
TP2	5/17/21	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	<60
TP3	5/17/21	1	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	160	420	580	340
TP4	5/17/21	1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	22	<46	22	250
TP5	5/17/21	1	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	380	720	1,100	150
TP6	5/17/21	1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	1,300	1,600	2,900	<60
TP7	5/17/21	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	68	200	268	<60
Bottom Hole Confirmation Samples												
BH-1	6/3/21	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	18	<45	18	<60
BH-2	6/3/21	0.67	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	36	66	102	<60
BH-2A	6/18/21	0.8	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	47	55	102	<60
BH-2B	7/9/21	1	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	19	<40	19	<60
BH-3	6/3/21	0.67	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	83	170	253	<60
BH-3A	6/18/21	0.8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	52	76	126	<60
BH-3B	7/9/21	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	18	44	62	<60
BH-4	6/3/21	0.67	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	38	82	120	<60
BH-4A	6/18/21	1	<0.024	<0.049	<0.049	<0.98	<0.98	<4.9	41	53	94	<60
BH-5	6/3/21	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	26	<49	26	<59
BH-6	6/3/21	1-1.5'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	25	<44	25	<60
BH-7	6/3/21	1-1.5'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	34	61	95	<60
BH-8	6/3/21	0.83	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	80	130	210	<60
BH-8A	6/18/21	0.9	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	210	290	500	<60
BH-8B	7/9/21	1	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	76	160	236	<60
BH-8	7/20/21	1.5-2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	9.4	<44	9.4	<60
BH-9	6/4/21	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	240	400	640	<61
BH-9A	6/18/21	1.1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	52	98	150	<60
BH-9B	7/9/21	1.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	83	150	233	<60
BH-9	7/20/21	1.5-2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	20	<44	20	<60
BH-10	6/4/21	1	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	230	410	640	<60
BH-10A	6/18/21	1.5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	29	<49	29	<60
BH-11	6/4/21	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	82	140	222	<60
BH-11A	6/18/21	1.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	24	<47	24	<60

Table 1
Summary of Soil Analytical Data
Pan Am AIZ Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
BH-12	6/4/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	22	<46	22	<60
BH-13	6/4/21	1.5	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	87	140	227	<60
BH-13A	6/18/21	1.7	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	38	130	166	<60
BH-13B	7/9/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.7	<43	<43	<60
Side Wall Confirmation Samples												
SW-1	6/3/21	composite	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	61	120	181	<60
SW-1A	6/18/21	composite	<0.024	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	<60
SW-2	6/3/21	composite	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	67	130	207	<61
SW-2A	6/18/21	composite	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	<60
SW-3	6/4/21	composite	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	83	230	313	<60
SW-3A	6/18/21	composite	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<47	<47	<60
SW-4	6/4/21	composite	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.0	<45	<45	<60

Notes:

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

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

B-BH-2

Sample Point Excavated

Attachment A

Site Characterization Documentation

Pan Am AIZ Federal #1

Karst Potential Map

Legend



High



Low



Medium



Pan Am AIZ Federal #1

 Pan Am AIZ Federal #1

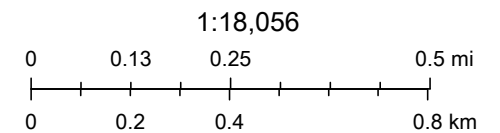


Pan Am AIZ Federal #1



7/4/2021 2:09:47 PM

GIS WATERS PODs  OSE District Boundary
 Active  SiteBoundaries






Esri, HERE, IPC, U.S. Department of Energy Office of Legacy Management,

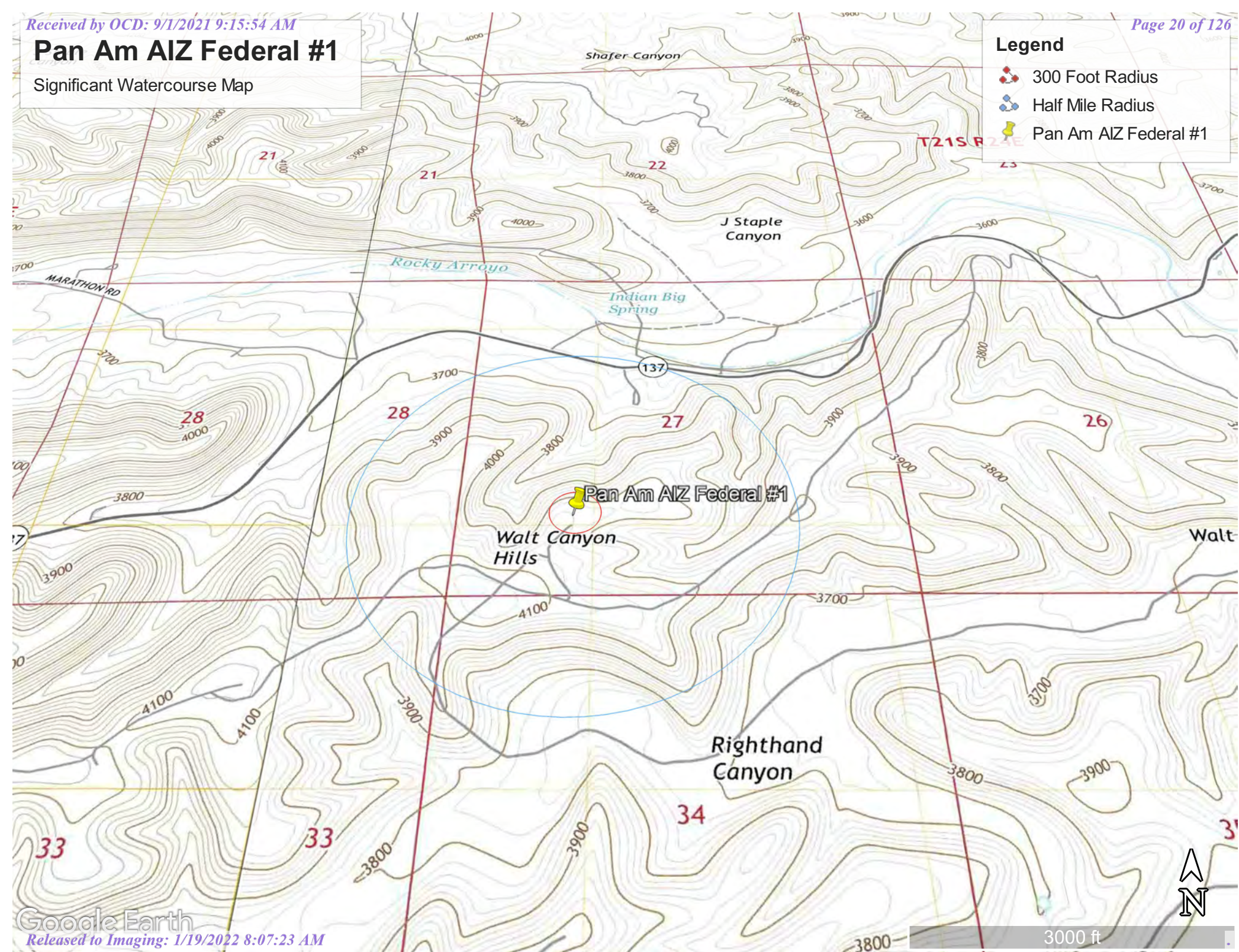
Printed from Public Web Map
Unofficial Map from OSE POD Locations Web Application

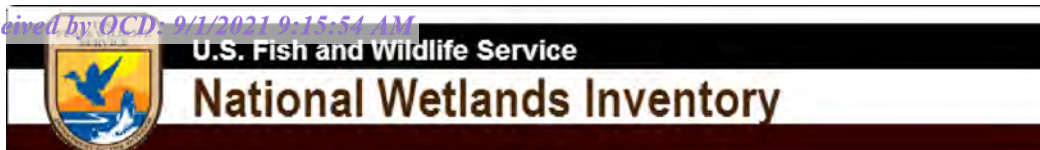
Pan Am AIZ Federal #1

Significant Watercourse Map

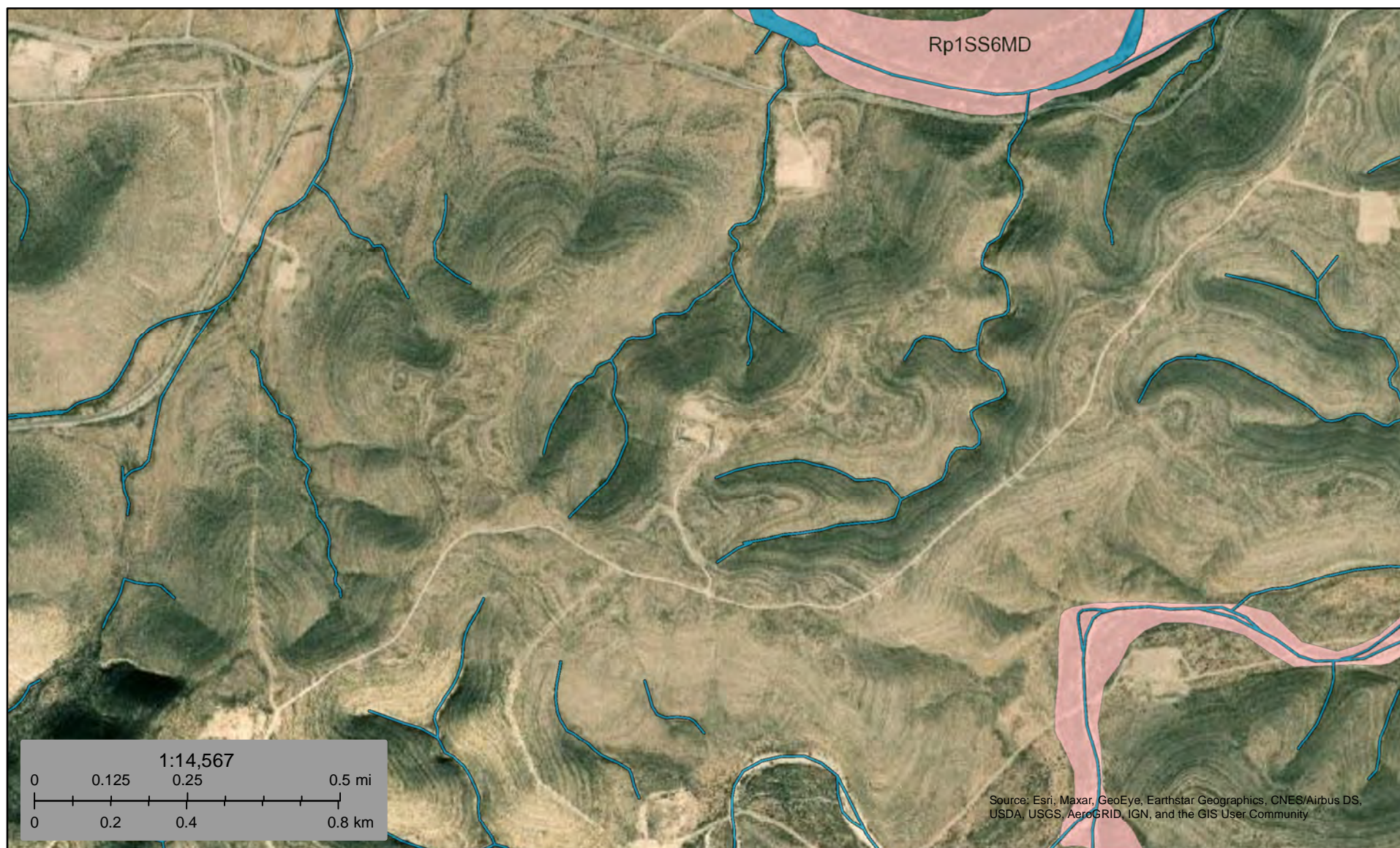
Legend

-  300 Foot Radius
-  Half Mile Radius
-  Pan Am AIZ Federal #1





Pan Am AIZ Federal #1



July 4, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



104°29'43"W 32°27'3"N



Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/13/2021 at 11:40 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Attachment B Photographic Log



Photo 1 – Area A



Photo 2 – Area A



Site Photograph
EOG Pan Am AIZ Federal #1
Release Site.

GHD | Report for EOG | 11228315



Photo 3 Area B



Site Photograph
EOG Pan Am AIZ Federal #1
Release Site.

GHD | Report for EOG | 11228315

Attachment C Laboratory Analytical Reports and Chain-of- Custody Documentation



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

May 21, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: Pan Am AI2 Federal 1

OrderNo.: 2105797

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/19/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2105797

Date Reported: 5/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AI2 Federal 1

Lab Order: 2105797

Lab ID: 2105797-001

Collection Date: 5/17/2021 11:55:00 AM

Client Sample ID: TP1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/20/2021 11:28:59 AM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3800	92		mg/Kg	10	5/20/2021 10:46:59 AM	60136
Motor Oil Range Organics (MRO)	4500	460		mg/Kg	10	5/20/2021 10:46:59 AM	60136
Surr: DNOP	0	70-130	S	%Rec	10	5/20/2021 10:46:59 AM	60136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	5/20/2021 8:24:21 PM	60129
Surr: BFB	97.7	70-130	D	%Rec	5	5/20/2021 8:24:21 PM	60129
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/20/2021 8:24:21 PM	60129
Toluene	ND	0.25	D	mg/Kg	5	5/20/2021 8:24:21 PM	60129
Ethylbenzene	ND	0.25	D	mg/Kg	5	5/20/2021 8:24:21 PM	60129
Xylenes, Total	ND	0.49	D	mg/Kg	5	5/20/2021 8:24:21 PM	60129
Surr: 4-Bromofluorobenzene	106	70-130	D	%Rec	5	5/20/2021 8:24:21 PM	60129

Lab ID: 2105797-002

Collection Date: 5/17/2021 12:00:00 PM

Client Sample ID: TP2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/20/2021 11:41:24 AM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/20/2021 10:13:49 AM	60136
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/20/2021 10:13:49 AM	60136
Surr: DNOP	108	70-130		%Rec	1	5/20/2021 10:13:49 AM	60136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/20/2021 11:32:42 PM	60129
Surr: BFB	98.8	70-130		%Rec	1	5/20/2021 11:32:42 PM	60129
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/20/2021 11:32:42 PM	60129
Toluene	ND	0.049		mg/Kg	1	5/20/2021 11:32:42 PM	60129
Ethylbenzene	ND	0.049		mg/Kg	1	5/20/2021 11:32:42 PM	60129
Xylenes, Total	ND	0.098		mg/Kg	1	5/20/2021 11:32:42 PM	60129
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/20/2021 11:32:42 PM	60129

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

Qualifiers:

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

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

Page 1 of 10

Analytical Report

Lab Order: 2105797

Date Reported: 5/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105797

Project: Pan Am AI2 Federal 1

Lab ID: 2105797-003

Collection Date: 5/17/2021 12:05:00 PM

Client Sample ID: TP3

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	340	60		mg/Kg	20	5/20/2021 12:24:43 PM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	160	10		mg/Kg	1	5/20/2021 11:41:13 AM	60136
Motor Oil Range Organics (MRO)	420	50		mg/Kg	1	5/20/2021 11:41:13 AM	60136
Surr: DNOP	96.3	70-130		%Rec	1	5/20/2021 11:41:13 AM	60136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/21/2021 12:43:48 AM	60129
Surr: BFB	96.5	70-130		%Rec	1	5/21/2021 12:43:48 AM	60129
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/21/2021 12:43:48 AM	60129
Toluene	ND	0.049		mg/Kg	1	5/21/2021 12:43:48 AM	60129
Ethylbenzene	ND	0.049		mg/Kg	1	5/21/2021 12:43:48 AM	60129
Xylenes, Total	ND	0.098		mg/Kg	1	5/21/2021 12:43:48 AM	60129
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/21/2021 12:43:48 AM	60129

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105797

Date Reported: 5/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105797

Project: Pan Am AI2 Federal 1

Lab ID: 2105797-004

Collection Date: 5/17/2021 12:10:00 PM

Client Sample ID: TP4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	250	60		mg/Kg	20	5/20/2021 12:37:07 PM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	22	9.1		mg/Kg	1	5/20/2021 10:23:29 AM	60136
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/20/2021 10:23:29 AM	60136
Surr: DNOP	80.6	70-130		%Rec	1	5/20/2021 10:23:29 AM	60136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/21/2021 1:07:31 AM	60129
Surr: BFB	96.6	70-130		%Rec	1	5/21/2021 1:07:31 AM	60129
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/21/2021 1:07:31 AM	60129
Toluene	ND	0.049		mg/Kg	1	5/21/2021 1:07:31 AM	60129
Ethylbenzene	ND	0.049		mg/Kg	1	5/21/2021 1:07:31 AM	60129
Xylenes, Total	ND	0.099		mg/Kg	1	5/21/2021 1:07:31 AM	60129
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	5/21/2021 1:07:31 AM	60129

Lab ID: 2105797-005

Collection Date: 5/17/2021 12:15:00 PM

Client Sample ID: TP5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	150	60		mg/Kg	20	5/20/2021 12:49:32 PM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	380	8.1		mg/Kg	1	5/20/2021 12:00:42 PM	60136
Motor Oil Range Organics (MRO)	720	40		mg/Kg	1	5/20/2021 12:00:42 PM	60136
Surr: DNOP	120	70-130		%Rec	1	5/20/2021 12:00:42 PM	60136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/21/2021 1:31:00 AM	60129
Surr: BFB	97.6	70-130		%Rec	1	5/21/2021 1:31:00 AM	60129
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/21/2021 1:31:00 AM	60129
Toluene	ND	0.050		mg/Kg	1	5/21/2021 1:31:00 AM	60129
Ethylbenzene	ND	0.050		mg/Kg	1	5/21/2021 1:31:00 AM	60129
Xylenes, Total	ND	0.10		mg/Kg	1	5/21/2021 1:31:00 AM	60129
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	5/21/2021 1:31:00 AM	60129

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

Qualifiers:

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

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

Page 3 of 10

Analytical Report

Lab Order: 2105797

Date Reported: 5/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105797

Project: Pan Am AI2 Federal 1

Lab ID: 2105797-006

Collection Date: 5/17/2021 12:20:00 PM

Client Sample ID: TP6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/20/2021 1:26:46 PM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1300	91		mg/Kg	10	5/20/2021 9:52:29 AM	60136
Motor Oil Range Organics (MRO)	1600	450		mg/Kg	10	5/20/2021 9:52:29 AM	60136
Surr: DNOP	0	70-130	S	%Rec	10	5/20/2021 9:52:29 AM	60136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/21/2021 1:54:28 AM	60129
Surr: BFB	96.0	70-130		%Rec	1	5/21/2021 1:54:28 AM	60129
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/21/2021 1:54:28 AM	60129
Toluene	ND	0.049		mg/Kg	1	5/21/2021 1:54:28 AM	60129
Ethylbenzene	ND	0.049		mg/Kg	1	5/21/2021 1:54:28 AM	60129
Xylenes, Total	ND	0.099		mg/Kg	1	5/21/2021 1:54:28 AM	60129
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	5/21/2021 1:54:28 AM	60129

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2105797

Date Reported: 5/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105797

Project: Pan Am AI2 Federal 1

Lab ID: 2105797-007

Collection Date: 5/17/2021 12:25:00 PM

Client Sample ID: TP7

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/20/2021 1:39:10 PM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	68	9.7		mg/Kg	1	5/20/2021 2:31:26 PM	60136
Motor Oil Range Organics (MRO)	200	49		mg/Kg	1	5/20/2021 2:31:26 PM	60136
Surr: DNOP	101	70-130		%Rec	1	5/20/2021 2:31:26 PM	60136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/21/2021 2:18:00 AM	60129
Surr: BFB	97.4	70-130		%Rec	1	5/21/2021 2:18:00 AM	60129
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/21/2021 2:18:00 AM	60129
Toluene	ND	0.050		mg/Kg	1	5/21/2021 2:18:00 AM	60129
Ethylbenzene	ND	0.050		mg/Kg	1	5/21/2021 2:18:00 AM	60129
Xylenes, Total	ND	0.099		mg/Kg	1	5/21/2021 2:18:00 AM	60129
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/21/2021 2:18:00 AM	60129

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

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

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

WO#: 2105797

21-May-21

Client: GHD**Project:** Pan Am AI2 Federal 1

Sample ID: MB-60151	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60151	RunNo: 77526								
Prep Date: 5/20/2021	Analysis Date: 5/20/2021	SeqNo: 2752461	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60151	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60151	RunNo: 77526								
Prep Date: 5/20/2021	Analysis Date: 5/20/2021	SeqNo: 2752462	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

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

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

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

WO#: 2105797

21-May-21

Client: GHD**Project:** Pan Am AI2 Federal 1

Sample ID: MB-60136	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60136	RunNo: 77529								
Prep Date: 5/19/2021	Analysis Date: 5/20/2021	SeqNo: 2751569 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.0	70	130			

Sample ID: LCS-60136	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60136	RunNo: 77529								
Prep Date: 5/19/2021	Analysis Date: 5/20/2021	SeqNo: 2751642 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.1	68.9	141			
Surr: DNOP	4.7		5.000		94.9	70	130			

Sample ID: LCS-60152	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60152	RunNo: 77529								
Prep Date: 5/20/2021	Analysis Date: 5/20/2021	SeqNo: 2751985 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.1	70	130			

Sample ID: MB-60152	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60152	RunNo: 77529								
Prep Date: 5/20/2021	Analysis Date: 5/20/2021	SeqNo: 2751986 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		120	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#: 2105797

21-May-21

Client: GHD**Project:** Pan Am AI2 Federal 1

Sample ID: mb-60139	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60139			RunNo: 77537						
Prep Date: 5/19/2021	Analysis Date: 5/20/2021			SeqNo: 2752224	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.2	70	130			

Sample ID: lcs-60139	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60139			RunNo: 77537						
Prep Date: 5/19/2021	Analysis Date: 5/20/2021			SeqNo: 2752225	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		110	70	130			

Sample ID: mb-60129	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60129			RunNo: 77537						
Prep Date: 5/19/2021	Analysis Date: 5/20/2021			SeqNo: 2752247	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.4	70	130			

Sample ID: lcs-60129	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60129			RunNo: 77537						
Prep Date: 5/19/2021	Analysis Date: 5/20/2021			SeqNo: 2752248	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.8	78.6	131			
Surr: BFB	1100		1000		106	70	130			

Sample ID: 2105797-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP1	Batch ID: 60129			RunNo: 77537						
Prep Date: 5/19/2021	Analysis Date: 5/20/2021			SeqNo: 2752250	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	20	24.49	0	106	61.3	114			
Surr: BFB	4900		4897		101	70	130			

Sample ID: 2105797-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP1	Batch ID: 60129			RunNo: 77537						
Prep Date: 5/19/2021	Analysis Date: 5/20/2021			SeqNo: 2752251	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	20	24.73	0	96.2	61.3	114	8.90	20	
Surr: BFB	4900		4946		99.0	70	130	0	0	

Qualifiers:

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

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

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

WO#: 2105797

21-May-21

Client: GHD**Project:** Pan Am AI2 Federal 1

Sample ID: mb-60139	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 60139				RunNo: 77537					
Prep Date: 5/19/2021	Analysis Date: 5/20/2021				SeqNo: 2752268	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: LCS-60139	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 60139				RunNo: 77537					
Prep Date: 5/19/2021	Analysis Date: 5/20/2021				SeqNo: 2752269	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: mb-60129	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 60129				RunNo: 77537					
Prep Date: 5/19/2021	Analysis Date: 5/20/2021				SeqNo: 2752291	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: LCS-60129	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 60129				RunNo: 77537					
Prep Date: 5/19/2021	Analysis Date: 5/20/2021				SeqNo: 2752292	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.5	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: 2105797-002ams	SampType: MS				TestCode: EPA Method 8021B: Volatiles					
Client ID: TP2	Batch ID: 60129				RunNo: 77537					
Prep Date: 5/19/2021	Analysis Date: 5/20/2021				SeqNo: 2752295	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9814	0	93.6	76.3	120			
Toluene	0.97	0.049	0.9814	0	98.6	78.5	120			
Ethylbenzene	0.98	0.049	0.9814	0	99.9	78.1	124			
Xylenes, Total	3.0	0.098	2.944	0	100	79.3	125			

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#: 2105797

21-May-21

Client: GHD**Project:** Pan Am AI2 Federal 1

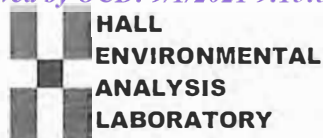
Sample ID: 2105797-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP2	Batch ID: 60129	RunNo: 77537								
Prep Date: 5/19/2021	Analysis Date: 5/20/2021	SeqNo: 2752295	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		0.9814		108	70	130			

Sample ID: 2105797-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP2	Batch ID: 60129	RunNo: 77537								
Prep Date: 5/19/2021	Analysis Date: 5/21/2021	SeqNo: 2752296	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9775	0	102	80	120	8.15	20	
Toluene	1.0	0.049	0.9775	0	107	80	120	8.18	20	
Ethylbenzene	1.1	0.049	0.9775	0	109	80	120	8.34	20	
Xylenes, Total	3.2	0.098	2.933	0	109	80	120	8.20	20	
Surr: 4-Bromofluorobenzene	1.1		0.9775		109	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2105797

RcptNo: 1

Received By: Juan Rojas

5/19/2021 7:28:00 AM

Completed By: Cheyenne Cason

5/19/2021 7:47:27 AM

Reviewed By:

JR 5/19/21

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

SPA 5.19.21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.0	Good				



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

June 16, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Pan Am AI2 Federal 1

OrderNo.: 2106313

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 6/5/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2106313

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AI2 Federal 1

Lab Order: 2106313

Lab ID: 2106313-001

Collection Date: 6/3/2021 1:45:00 PM

Client Sample ID: BH-1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 8:04:16 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	18	9.0		mg/Kg	1	6/12/2021 1:08:01 PM	60457
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/12/2021 1:08:01 PM	60457
Surr: DNOP	105	70-130		%Rec	1	6/12/2021 1:08:01 PM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2021 2:17:54 AM	60456
Surr: BFB	103	70-130		%Rec	1	6/8/2021 2:17:54 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/8/2021 2:17:54 AM	60456
Toluene	ND	0.050		mg/Kg	1	6/8/2021 2:17:54 AM	60456
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2021 2:17:54 AM	60456
Xylenes, Total	ND	0.099		mg/Kg	1	6/8/2021 2:17:54 AM	60456
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/8/2021 2:17:54 AM	60456

Lab ID: 2106313-002

Collection Date: 6/3/2021 1:50:00 PM

Client Sample ID: BH-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 8:16:41 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	36	8.8		mg/Kg	1	6/12/2021 4:29:25 AM	60457
Motor Oil Range Organics (MRO)	66	44		mg/Kg	1	6/12/2021 4:29:25 AM	60457
Surr: DNOP	142	70-130	S	%Rec	1	6/12/2021 4:29:25 AM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2021 3:05:25 AM	60456
Surr: BFB	103	70-130		%Rec	1	6/8/2021 3:05:25 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/8/2021 3:05:25 AM	60456
Toluene	ND	0.050		mg/Kg	1	6/8/2021 3:05:25 AM	60456
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2021 3:05:25 AM	60456
Xylenes, Total	ND	0.099		mg/Kg	1	6/8/2021 3:05:25 AM	60456
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/8/2021 3:05:25 AM	60456

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106313

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AI2 Federal 1

Lab Order: 2106313**Lab ID:** 2106313-003**Collection Date:** 6/3/2021 1:55:00 PM**Client Sample ID:** BH-3**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 8:53:55 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	83	8.8		mg/Kg	1	6/12/2021 4:53:51 AM	60457
Motor Oil Range Organics (MRO)	170	44		mg/Kg	1	6/12/2021 4:53:51 AM	60457
Surr: DNOP	104	70-130		%Rec	1	6/12/2021 4:53:51 AM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2021 3:29:10 AM	60456
Surr: BFB	103	70-130		%Rec	1	6/8/2021 3:29:10 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/8/2021 3:29:10 AM	60456
Toluene	ND	0.050		mg/Kg	1	6/8/2021 3:29:10 AM	60456
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2021 3:29:10 AM	60456
Xylenes, Total	ND	0.099		mg/Kg	1	6/8/2021 3:29:10 AM	60456
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/8/2021 3:29:10 AM	60456

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106313

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AI2 Federal 1

Lab Order: 2106313

Lab ID: 2106313-004

Collection Date: 6/3/2021 2:00:00 PM

Client Sample ID: BH-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 9:06:19 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	38	9.1		mg/Kg	1	6/12/2021 5:42:41 AM	60457
Motor Oil Range Organics (MRO)	82	45		mg/Kg	1	6/12/2021 5:42:41 AM	60457
Surr: DNOP	122	70-130		%Rec	1	6/12/2021 5:42:41 AM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2021 3:52:59 AM	60456
Surr: BFB	101	70-130		%Rec	1	6/8/2021 3:52:59 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/8/2021 3:52:59 AM	60456
Toluene	ND	0.050		mg/Kg	1	6/8/2021 3:52:59 AM	60456
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2021 3:52:59 AM	60456
Xylenes, Total	ND	0.10		mg/Kg	1	6/8/2021 3:52:59 AM	60456
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/8/2021 3:52:59 AM	60456

Lab ID: 2106313-005

Collection Date: 6/3/2021 2:05:00 PM

Client Sample ID: BH-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	6/10/2021 9:18:44 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	26	9.9		mg/Kg	1	6/8/2021 5:05:04 PM	60457
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2021 5:05:04 PM	60457
Surr: DNOP	118	70-130		%Rec	1	6/8/2021 5:05:04 PM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2021 4:16:50 AM	60456
Surr: BFB	106	70-130		%Rec	1	6/8/2021 4:16:50 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/8/2021 4:16:50 AM	60456
Toluene	ND	0.049		mg/Kg	1	6/8/2021 4:16:50 AM	60456
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2021 4:16:50 AM	60456
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2021 4:16:50 AM	60456
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/8/2021 4:16:50 AM	60456

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106313

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106313

Project: Pan Am AI2 Federal 1

Lab ID: 2106313-006

Collection Date: 6/3/2021 2:15:00 PM

Client Sample ID: BH-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 9:31:09 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	25	8.8		mg/Kg	1	6/8/2021 5:29:36 PM	60457
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/8/2021 5:29:36 PM	60457
Surr: DNOP	103	70-130		%Rec	1	6/8/2021 5:29:36 PM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2021 4:40:36 AM	60456
Surr: BFB	103	70-130		%Rec	1	6/8/2021 4:40:36 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/8/2021 4:40:36 AM	60456
Toluene	ND	0.049		mg/Kg	1	6/8/2021 4:40:36 AM	60456
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2021 4:40:36 AM	60456
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2021 4:40:36 AM	60456
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/8/2021 4:40:36 AM	60456

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106313

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AI2 Federal 1

Lab Order: 2106313**Lab ID:** 2106313-007**Collection Date:** 6/3/2021 2:20:00 PM**Client Sample ID:** BH-7**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 9:43:34 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	34	9.2		mg/Kg	1	6/12/2021 4:05:01 AM	60457
Motor Oil Range Organics (MRO)	61	46		mg/Kg	1	6/12/2021 4:05:01 AM	60457
Surr: DNOP	93.0	70-130		%Rec	1	6/12/2021 4:05:01 AM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2021 8:53:09 AM	60456
Surr: BFB	107	70-130		%Rec	1	6/8/2021 8:53:09 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/8/2021 8:53:09 AM	60456
Toluene	ND	0.050		mg/Kg	1	6/8/2021 8:53:09 AM	60456
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2021 8:53:09 AM	60456
Xylenes, Total	ND	0.10		mg/Kg	1	6/8/2021 8:53:09 AM	60456
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/8/2021 8:53:09 AM	60456

Lab ID: 2106313-008**Collection Date:** 6/3/2021 2:30:00 PM**Client Sample ID:** BH-8**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 9:56:00 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	80	9.5		mg/Kg	1	6/11/2021 5:12:16 PM	60457
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	6/11/2021 5:12:16 PM	60457
Surr: DNOP	134	70-130	S	%Rec	1	6/11/2021 5:12:16 PM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2021 9:16:46 AM	60456
Surr: BFB	105	70-130		%Rec	1	6/8/2021 9:16:46 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/8/2021 9:16:46 AM	60456
Toluene	ND	0.049		mg/Kg	1	6/8/2021 9:16:46 AM	60456
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2021 9:16:46 AM	60456
Xylenes, Total	ND	0.097		mg/Kg	1	6/8/2021 9:16:46 AM	60456
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/8/2021 9:16:46 AM	60456

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106313

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106313

Project: Pan Am AI2 Federal 1

Lab ID: 2106313-009

Collection Date: 6/3/2021 2:45:00 PM

Client Sample ID: SW-1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 10:08:24 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	61	9.5		mg/Kg	1	6/12/2021 5:18:19 AM	60457
Motor Oil Range Organics (MRO)	120	47		mg/Kg	1	6/12/2021 5:18:19 AM	60457
Surr: DNOP	104	70-130		%Rec	1	6/12/2021 5:18:19 AM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2021 9:40:20 AM	60456
Surr: BFB	103	70-130		%Rec	1	6/8/2021 9:40:20 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/8/2021 9:40:20 AM	60456
Toluene	ND	0.049		mg/Kg	1	6/8/2021 9:40:20 AM	60456
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2021 9:40:20 AM	60456
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2021 9:40:20 AM	60456
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/8/2021 9:40:20 AM	60456

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106313

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106313

Project: Pan Am AI2 Federal 1

Lab ID: 2106313-010

Collection Date: 6/3/2021 2:50:00 PM

Client Sample ID: SW-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	6/10/2021 10:20:50 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	67	9.0		mg/Kg	1	6/11/2021 4:48:14 PM	60457
Motor Oil Range Organics (MRO)	130	45		mg/Kg	1	6/11/2021 4:48:14 PM	60457
Surr: DNOP	131	70-130	S	%Rec	1	6/11/2021 4:48:14 PM	60457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2021 10:03:57 AM	60456
Surr: BFB	105	70-130		%Rec	1	6/8/2021 10:03:57 AM	60456
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/8/2021 10:03:57 AM	60456
Toluene	ND	0.049		mg/Kg	1	6/8/2021 10:03:57 AM	60456
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2021 10:03:57 AM	60456
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2021 10:03:57 AM	60456
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/8/2021 10:03:57 AM	60456

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

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

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

WO#: 2106313

16-Jun-21

Client: GHD**Project:** Pan Am AI2 Federal 1

Sample ID: MB-60561		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 60561		RunNo: 79004						
Prep Date: 6/10/2021		Analysis Date: 6/10/2021		SeqNo: 2771478		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60561		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 60561		RunNo: 79004						
Prep Date: 6/10/2021		Analysis Date: 6/10/2021		SeqNo: 2771479		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	90	110			

Qualifiers:

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

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

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

WO#: 2106313

16-Jun-21

Client: GHD**Project:** Pan Am AI2 Federal 1

Sample ID: MB-60457	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60457	RunNo: 78922								
Prep Date: 6/7/2021	Analysis Date: 6/8/2021	SeqNo: 2768686 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	70	130			

Sample ID: LCS-60457	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60457	RunNo: 78922								
Prep Date: 6/7/2021	Analysis Date: 6/8/2021	SeqNo: 2768687 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.3	68.9	141			
Surr: DNOP	5.1		5.000		102	70	130			

Qualifiers:

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

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

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

WO#: 2106313

16-Jun-21

Client: GHD**Project:** Pan Am AI2 Federal 1

Sample ID: mb-60456	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 60456	RunNo: 78893								
Prep Date: 6/5/2021	Analysis Date: 6/7/2021	SeqNo: 2767217 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: lcs-60456	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 60456	RunNo: 78893								
Prep Date: 6/5/2021	Analysis Date: 6/7/2021	SeqNo: 2767218 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1200		1000		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

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#: 2106313

16-Jun-21

Client: GHD**Project:** Pan Am AI2 Federal 1

Sample ID: mb-60456	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60456	RunNo: 78893								
Prep Date: 6/5/2021	Analysis Date: 6/7/2021	SeqNo: 2767265	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

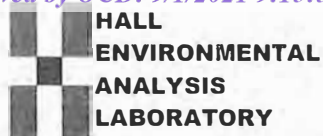
Sample ID: LCS-60456	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60456	RunNo: 78893								
Prep Date: 6/5/2021	Analysis Date: 6/7/2021	SeqNo: 2767266	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Qualifiers:

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

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

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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: 2106313

RcptNo: 1

Received By: Juan Rojas

6/5/2021 8:30:00 AM

Completed By: Juan Rojas

6/5/2021 11:04:14 AM

Reviewed By:

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered?

Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? 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: JR 6/5/21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				
2	1.7	Good				



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

June 16, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Pan Am AIZ Federal 1

OrderNo.: 2106312

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/5/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2106312

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106312

Project: Pan Am AIZ Federal 1

Lab ID: 2106312-001

Collection Date: 6/4/2021 11:00:00 AM

Client Sample ID: BH-9

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	6/10/2021 5:47:43 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	240	9.1		mg/Kg	1	6/11/2021 10:49:49 PM	60473
Motor Oil Range Organics (MRO)	400	46		mg/Kg	1	6/11/2021 10:49:49 PM	60473
Surr: DNOP	147	70-130	S	%Rec	1	6/11/2021 10:49:49 PM	60473
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/9/2021 12:29:22 PM	60472
Surr: BFB	107	70-130		%Rec	1	6/9/2021 12:29:22 PM	60472
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/9/2021 12:29:22 PM	60472
Toluene	ND	0.050		mg/Kg	1	6/9/2021 12:29:22 PM	60472
Ethylbenzene	ND	0.050		mg/Kg	1	6/9/2021 12:29:22 PM	60472
Xylenes, Total	ND	0.099		mg/Kg	1	6/9/2021 12:29:22 PM	60472
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/9/2021 12:29:22 PM	60472

Lab ID: 2106312-002

Collection Date: 6/4/2021 11:15:00 AM

Client Sample ID: BH-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 6:49:47 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	230	9.8		mg/Kg	1	6/11/2021 11:37:40 PM	60473
Motor Oil Range Organics (MRO)	410	49		mg/Kg	1	6/11/2021 11:37:40 PM	60473
Surr: DNOP	126	70-130		%Rec	1	6/11/2021 11:37:40 PM	60473
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/9/2021 12:52:56 PM	60472
Surr: BFB	109	70-130		%Rec	1	6/9/2021 12:52:56 PM	60472
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/9/2021 12:52:56 PM	60472
Toluene	ND	0.047		mg/Kg	1	6/9/2021 12:52:56 PM	60472
Ethylbenzene	ND	0.047		mg/Kg	1	6/9/2021 12:52:56 PM	60472
Xylenes, Total	ND	0.094		mg/Kg	1	6/9/2021 12:52:56 PM	60472
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/9/2021 12:52:56 PM	60472

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

Qualifiers:

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

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

Page 1 of 9

Analytical Report

Lab Order: 2106312

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106312

Project: Pan Am AIZ Federal 1

Lab ID: 2106312-003

Collection Date: 6/4/2021 11:20:00 AM

Client Sample ID: BH-11

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 7:02:12 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	82	9.0		mg/Kg	1	6/12/2021 12:25:36 AM	60473
Motor Oil Range Organics (MRO)	140	45		mg/Kg	1	6/12/2021 12:25:36 AM	60473
Surr: DNOP	95.8	70-130		%Rec	1	6/12/2021 12:25:36 AM	60473
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/9/2021 1:16:26 PM	60472
Surr: BFB	109	70-130		%Rec	1	6/9/2021 1:16:26 PM	60472
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/9/2021 1:16:26 PM	60472
Toluene	ND	0.050		mg/Kg	1	6/9/2021 1:16:26 PM	60472
Ethylbenzene	ND	0.050		mg/Kg	1	6/9/2021 1:16:26 PM	60472
Xylenes, Total	ND	0.10		mg/Kg	1	6/9/2021 1:16:26 PM	60472
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/9/2021 1:16:26 PM	60472

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106312

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106312

Project: Pan Am AIZ Federal 1

Lab ID: 2106312-004

Collection Date: 6/4/2021 11:30:00 AM

Client Sample ID: BH-12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 7:14:37 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	22	9.1		mg/Kg	1	6/12/2021 3:40:32 AM	60473
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/12/2021 3:40:32 AM	60473
Surr: DNOP	110	70-130		%Rec	1	6/12/2021 3:40:32 AM	60473
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2021 1:40:02 PM	60472
Surr: BFB	106	70-130		%Rec	1	6/9/2021 1:40:02 PM	60472
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/9/2021 1:40:02 PM	60472
Toluene	ND	0.048		mg/Kg	1	6/9/2021 1:40:02 PM	60472
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2021 1:40:02 PM	60472
Xylenes, Total	ND	0.096		mg/Kg	1	6/9/2021 1:40:02 PM	60472
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/9/2021 1:40:02 PM	60472

Lab ID: 2106312-005

Collection Date: 6/4/2021 11:40:00 AM

Client Sample ID: BH13

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 7:27:02 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	87	9.0		mg/Kg	1	6/12/2021 1:38:10 AM	60473
Motor Oil Range Organics (MRO)	140	45		mg/Kg	1	6/12/2021 1:38:10 AM	60473
Surr: DNOP	105	70-130		%Rec	1	6/12/2021 1:38:10 AM	60473
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/9/2021 2:03:42 PM	60472
Surr: BFB	106	70-130		%Rec	1	6/9/2021 2:03:42 PM	60472
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/9/2021 2:03:42 PM	60472
Toluene	ND	0.047		mg/Kg	1	6/9/2021 2:03:42 PM	60472
Ethylbenzene	ND	0.047		mg/Kg	1	6/9/2021 2:03:42 PM	60472
Xylenes, Total	ND	0.094		mg/Kg	1	6/9/2021 2:03:42 PM	60472
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/9/2021 2:03:42 PM	60472

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106312

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106312

Project: Pan Am AIZ Federal 1

Lab ID: 2106312-006

Collection Date: 6/4/2021 11:50:00 AM

Client Sample ID: SW-3

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 7:39:26 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	83	17		mg/Kg	2	6/12/2021 6:06:53 AM	60473
Motor Oil Range Organics (MRO)	230	86		mg/Kg	2	6/12/2021 6:06:53 AM	60473
Surr: DNOP	123	70-130		%Rec	2	6/12/2021 6:06:53 AM	60473
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2021 3:14:46 PM	60472
Surr: BFB	109	70-130		%Rec	1	6/9/2021 3:14:46 PM	60472
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/9/2021 3:14:46 PM	60472
Toluene	ND	0.048		mg/Kg	1	6/9/2021 3:14:46 PM	60472
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2021 3:14:46 PM	60472
Xylenes, Total	ND	0.095		mg/Kg	1	6/9/2021 3:14:46 PM	60472
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/9/2021 3:14:46 PM	60472

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106312

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106312

Project: Pan Am AIZ Federal 1

Lab ID: 2106312-007

Collection Date: 6/4/2021 11:55:00 AM

Client Sample ID: SW-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 7:51:51 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/12/2021 3:16:13 AM	60473
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/12/2021 3:16:13 AM	60473
Surr: DNOP	141	70-130	S	%Rec	1	6/12/2021 3:16:13 AM	60473
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2021 3:38:24 PM	60472
Surr: BFB	109	70-130		%Rec	1	6/9/2021 3:38:24 PM	60472
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/9/2021 3:38:24 PM	60472
Toluene	ND	0.048		mg/Kg	1	6/9/2021 3:38:24 PM	60472
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2021 3:38:24 PM	60472
Xylenes, Total	ND	0.097		mg/Kg	1	6/9/2021 3:38:24 PM	60472
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/9/2021 3:38:24 PM	60472

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

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

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

WO#: 2106312

16-Jun-21

Client: GHD**Project:** Pan Am AIZ Federal 1

Sample ID: MB-60561		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 60561		RunNo: 79004						
Prep Date: 6/10/2021		Analysis Date: 6/10/2021		SeqNo: 2771478		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60561		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 60561		RunNo: 79004						
Prep Date: 6/10/2021		Analysis Date: 6/10/2021		SeqNo: 2771479		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	90	110			

Qualifiers:

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

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

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

WO#: 2106312

16-Jun-21

Client: GHD**Project:** Pan Am AIZ Federal 1

Sample ID: MB-60473	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60473	RunNo: 78979								
Prep Date: 6/7/2021	Analysis Date: 6/10/2021	SeqNo: 2771932 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	70	130			

Sample ID: LCS-60473	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60473	RunNo: 78979								
Prep Date: 6/7/2021	Analysis Date: 6/10/2021	SeqNo: 2771934 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	122	68.9	141			
Surr: DNOP	6.4		5.000		128	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 7 of 9

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

WO#: 2106312

16-Jun-21

Client: GHD**Project:** Pan Am AIZ Federal 1

Sample ID: mb-60472	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 60472	RunNo: 78935								
Prep Date: 6/7/2021	Analysis Date: 6/9/2021	SeqNo: 2770405	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: lcs-60472	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 60472	RunNo: 78935								
Prep Date: 6/7/2021	Analysis Date: 6/9/2021	SeqNo: 2770406	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Qualifiers:

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

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

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

WO#: 2106312

16-Jun-21

Client: GHD**Project:** Pan Am AIZ Federal 1

Sample ID: mb-60472	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60472	RunNo: 78935								
Prep Date: 6/7/2021	Analysis Date: 6/9/2021	SeqNo: 2770452 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: LCS-60472	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60472	RunNo: 78935								
Prep Date: 6/7/2021	Analysis Date: 6/9/2021	SeqNo: 2770458 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2106312

RcptNo: 1

Received By: Juan Rojas

6/5/2021 8:30:00 AM

Completed By: Juan Rojas

6/5/2021 10:53:05 AM

Reviewed By: *for 06/05/2021*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *YR 6/5/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				
2	1.7	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

32460 Main St Suite 108 Albuquerque NM 87120Phone #: (505) 377-4218email or Fax#: Rocky.Haskell@GHD.comQA/QC Package: Chase - Seattle @ ghdresources.com☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush 5-day

Project Name:

Per Am ATZ Federal #1

Project #:

11228315

Project Manager:

Rocky Haskell
Tom Larson

Sampler:

On Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 0.9-0.1=0.8 (°C)Container
Type and #Preservative
Type1.8-0.1=1.7
HEAL No.
7106312

Date Time Matrix Sample Name

9/1/21 1100 S BA-91115 BA-101120 BA-111130 BA-121140 BA-131150 SL-31155 SL-4

Date: Time: Relinquished by:

9/1/21 1500 Zach Canino / JLC

Received by: Via:

Edumming

Date Time

9/4/21 1500

Date: Time: Relinquished by:

9/4/21 1900 Edumming

Received by: Via:

Edumming
Edumming

Date Time

9/5/21 8:30

Remarks:

Please email Zach Canino @ GHD.com
along with others listed aboveDirect Bill to Chase Settle EPCHALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 300



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

July 01, 2021

Becky Haskell

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Pan Am AIZ Federal #1

OrderNo.: 2106B21

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 11 sample(s) on 6/22/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2106B21

Date Reported: 7/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AIZ Federal #1

Lab Order: 2106B21**Lab ID:** 2106B21-001**Collection Date:** 6/18/2021 10:00:00 AM**Client Sample ID:** BH-2A**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2021 10:42:12 PM	60954
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	47	9.5		mg/Kg	1	6/27/2021 12:21:17 AM	60900
Motor Oil Range Organics (MRO)	55	47		mg/Kg	1	6/27/2021 12:21:17 AM	60900
Surr: DNOP	77.4	70-130		%Rec	1	6/27/2021 12:21:17 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 1:38:00 PM	60884
Surr: BFB	88.2	70-130		%Rec	1	6/29/2021 1:38:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	6/29/2021 1:38:00 PM	60884
Toluene	ND	0.048		mg/Kg	1	6/29/2021 1:38:00 PM	60884
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 1:38:00 PM	60884
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2021 1:38:00 PM	60884
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	6/29/2021 1:38:00 PM	60884

Lab ID: 2106B21-002**Collection Date:** 6/18/2021 10:05:00 AM**Client Sample ID:** BH-3A**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 12:26:05 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	52	9.6		mg/Kg	1	6/27/2021 2:47:01 AM	60900
Motor Oil Range Organics (MRO)	76	48		mg/Kg	1	6/27/2021 2:47:01 AM	60900
Surr: DNOP	79.0	70-130		%Rec	1	6/27/2021 2:47:01 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2021 2:37:00 PM	60884
Surr: BFB	91.3	70-130		%Rec	1	6/29/2021 2:37:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/29/2021 2:37:00 PM	60884
Toluene	ND	0.050		mg/Kg	1	6/29/2021 2:37:00 PM	60884
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2021 2:37:00 PM	60884
Xylenes, Total	ND	0.10		mg/Kg	1	6/29/2021 2:37:00 PM	60884
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	6/29/2021 2:37:00 PM	60884

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106B21

Date Reported: 7/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B21

Project: Pan Am AIZ Federal #1

Lab ID: 2106B21-003

Collection Date: 6/18/2021 10:10:00 AM

Client Sample ID: BH-4A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 12:38:29 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	41	9.5		mg/Kg	1	6/27/2021 3:35:31 AM	60900
Motor Oil Range Organics (MRO)	53	47		mg/Kg	1	6/27/2021 3:35:31 AM	60900
Surr: DNOP	75.8	70-130		%Rec	1	6/27/2021 3:35:31 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 2:57:00 PM	60884
Surr: BFB	93.2	70-130		%Rec	1	6/29/2021 2:57:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	6/29/2021 2:57:00 PM	60884
Toluene	ND	0.049		mg/Kg	1	6/29/2021 2:57:00 PM	60884
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2021 2:57:00 PM	60884
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2021 2:57:00 PM	60884
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	6/29/2021 2:57:00 PM	60884

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B21

Date Reported: 7/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AIZ Federal #1

Lab Order: 2106B21**Lab ID:** 2106B21-004**Collection Date:** 6/18/2021 10:15:00 AM**Client Sample ID:** BH-8A**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 12:50:53 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	210	9.9		mg/Kg	1	6/27/2021 4:24:02 AM	60900
Motor Oil Range Organics (MRO)	290	49		mg/Kg	1	6/27/2021 4:24:02 AM	60900
Surr: DNOP	81.4	70-130		%Rec	1	6/27/2021 4:24:02 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 3:17:00 PM	60884
Surr: BFB	92.7	70-130		%Rec	1	6/29/2021 3:17:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	6/29/2021 3:17:00 PM	60884
Toluene	ND	0.048		mg/Kg	1	6/29/2021 3:17:00 PM	60884
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 3:17:00 PM	60884
Xylenes, Total	ND	0.096		mg/Kg	1	6/29/2021 3:17:00 PM	60884
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	6/29/2021 3:17:00 PM	60884

Lab ID: 2106B21-005**Collection Date:** 6/18/2021 10:20:00 AM**Client Sample ID:** BH-9A**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	6/29/2021 1:03:18 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	52	9.9		mg/Kg	1	6/27/2021 5:12:33 AM	60900
Motor Oil Range Organics (MRO)	98	50		mg/Kg	1	6/27/2021 5:12:33 AM	60900
Surr: DNOP	79.8	70-130		%Rec	1	6/27/2021 5:12:33 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 3:37:00 PM	60884
Surr: BFB	92.4	70-130		%Rec	1	6/29/2021 3:37:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/29/2021 3:37:00 PM	60884
Toluene	ND	0.049		mg/Kg	1	6/29/2021 3:37:00 PM	60884
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2021 3:37:00 PM	60884
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2021 3:37:00 PM	60884
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	6/29/2021 3:37:00 PM	60884

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106B21

Date Reported: 7/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AIZ Federal #1

Lab Order: 2106B21

Lab ID: 2106B21-006

Collection Date: 6/18/2021 10:30:00 AM

Client Sample ID: BH-10A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 1:15:42 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	29	9.8		mg/Kg	1	6/27/2021 6:01:09 AM	60900
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/27/2021 6:01:09 AM	60900
Surr: DNOP	74.5	70-130		%Rec	1	6/27/2021 6:01:09 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 3:57:00 PM	60884
Surr: BFB	89.2	70-130		%Rec	1	6/29/2021 3:57:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/29/2021 3:57:00 PM	60884
Toluene	ND	0.049		mg/Kg	1	6/29/2021 3:57:00 PM	60884
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2021 3:57:00 PM	60884
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2021 3:57:00 PM	60884
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	6/29/2021 3:57:00 PM	60884

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B21

Date Reported: 7/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AIZ Federal #1

Lab Order: 2106B21**Lab ID:** 2106B21-007**Collection Date:** 6/18/2021 10:35:00 AM**Client Sample ID:** BH-11A**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 1:28:07 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	24	9.5		mg/Kg	1	6/27/2021 6:25:22 AM	60900
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/27/2021 6:25:22 AM	60900
Surr: DNOP	73.7	70-130		%Rec	1	6/27/2021 6:25:22 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 5:16:00 PM	60884
Surr: BFB	89.7	70-130		%Rec	1	6/29/2021 5:16:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	6/29/2021 5:16:00 PM	60884
Toluene	ND	0.049		mg/Kg	1	6/29/2021 5:16:00 PM	60884
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2021 5:16:00 PM	60884
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2021 5:16:00 PM	60884
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	6/29/2021 5:16:00 PM	60884

Lab ID: 2106B21-008**Collection Date:** 6/18/2021 10:40:00 AM**Client Sample ID:** BH-13A**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 1:40:31 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	38	10		mg/Kg	1	6/27/2021 7:13:59 AM	60900
Motor Oil Range Organics (MRO)	130	50		mg/Kg	1	6/27/2021 7:13:59 AM	60900
Surr: DNOP	79.6	70-130		%Rec	1	6/27/2021 7:13:59 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 5:36:00 PM	60884
Surr: BFB	89.3	70-130		%Rec	1	6/29/2021 5:36:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	6/29/2021 5:36:00 PM	60884
Toluene	ND	0.049		mg/Kg	1	6/29/2021 5:36:00 PM	60884
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2021 5:36:00 PM	60884
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2021 5:36:00 PM	60884
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	6/29/2021 5:36:00 PM	60884

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2106B21

Date Reported: 7/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2106B21

Project: Pan Am AIZ Federal #1

Lab ID: 2106B21-009

Collection Date: 6/18/2021 11:00:00 AM

Client Sample ID: SW-1A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 1:52:56 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/27/2021 7:38:12 AM	60900
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/27/2021 7:38:12 AM	60900
Surr: DNOP	53.8	70-130	S	%Rec	1	6/27/2021 7:38:12 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 5:56:00 PM	60884
Surr: BFB	94.0	70-130		%Rec	1	6/29/2021 5:56:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/29/2021 5:56:00 PM	60884
Toluene	ND	0.049		mg/Kg	1	6/29/2021 5:56:00 PM	60884
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2021 5:56:00 PM	60884
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2021 5:56:00 PM	60884
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	6/29/2021 5:56:00 PM	60884

Refer to the QC Summary report and sample login checklist for flagged QC data 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: 2106B21

Date Reported: 7/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Pan Am AIZ Federal #1

Lab Order: 2106B21

Lab ID: 2106B21-010

Collection Date: 6/18/2021 11:10:00 AM

Client Sample ID: SW-2A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 2:05:20 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/27/2021 8:02:22 AM	60900
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/27/2021 8:02:22 AM	60900
Surr: DNOP	55.9	70-130	S	%Rec	1	6/27/2021 8:02:22 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2021 6:16:00 PM	60884
Surr: BFB	87.5	70-130		%Rec	1	6/29/2021 6:16:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/29/2021 6:16:00 PM	60884
Toluene	ND	0.050		mg/Kg	1	6/29/2021 6:16:00 PM	60884
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2021 6:16:00 PM	60884
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2021 6:16:00 PM	60884
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	6/29/2021 6:16:00 PM	60884

Lab ID: 2106B21-011

Collection Date: 6/18/2021 11:15:00 AM

Client Sample ID: SW-3A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 2:17:44 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/27/2021 8:26:49 AM	60900
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/27/2021 8:26:49 AM	60900
Surr: DNOP	56.1	70-130	S	%Rec	1	6/27/2021 8:26:49 AM	60900
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 6:35:00 PM	60884
Surr: BFB	92.5	70-130		%Rec	1	6/29/2021 6:35:00 PM	60884
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/29/2021 6:35:00 PM	60884
Toluene	ND	0.049		mg/Kg	1	6/29/2021 6:35:00 PM	60884
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2021 6:35:00 PM	60884
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2021 6:35:00 PM	60884
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	6/29/2021 6:35:00 PM	60884

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

Qualifiers:

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

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

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Analytical ReportLab Order: **2106B21**Date Reported: **7/1/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** GHD**Lab Order:** 2106B21**Project:** Pan Am AIZ Federal #1

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

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

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

WO#: 2106B21

01-Jul-21

Client: GHD
Project: Pan Am AIZ Federal #1

Sample ID: MB-60954	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60954	RunNo: 79396								
Prep Date: 6/27/2021	Analysis Date: 6/27/2021	SeqNo: 2790557 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60954	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60954	RunNo: 79396								
Prep Date: 6/27/2021	Analysis Date: 6/27/2021	SeqNo: 2790558 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Sample ID: MB-60959	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60959	RunNo: 79432								
Prep Date: 6/28/2021	Analysis Date: 6/28/2021	SeqNo: 2792330 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60959	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60959	RunNo: 79432								
Prep Date: 6/28/2021	Analysis Date: 6/28/2021	SeqNo: 2792332 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

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

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

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

WO#: 2106B21

01-Jul-21

Client: GHD
Project: Pan Am AIZ Federal #1

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

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

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

Sample ID: MB-60876	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60876			RunNo: 79325						
Prep Date: 6/23/2021	Analysis Date: 6/25/2021			SeqNo: 2789218	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		92.6	70	130			

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

Sample ID: MB-60900	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60900			RunNo: 79325						
Prep Date: 6/24/2021	Analysis Date: 6/26/2021			SeqNo: 2789502	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.6	70	130			

Qualifiers:

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

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

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

WO#: 2106B21

01-Jul-21

Client: GHD**Project:** Pan Am AIZ Federal #1

Sample ID: LCS-60915	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 60915				RunNo: 79325					
Prep Date: 6/24/2021	Analysis Date: 6/26/2021				SeqNo: 2789503	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.7	70	130			

Sample ID: LCS-60900	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 60900				RunNo: 79325					
Prep Date: 6/24/2021	Analysis Date: 6/26/2021				SeqNo: 2789504	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	68.9	141			
Surr: DNOP	4.3		5.000		85.2	70	130			

Sample ID: 2106B21-001AMS	SampType: MS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BH-2A	Batch ID: 60900				RunNo: 79325					
Prep Date: 6/24/2021	Analysis Date: 6/27/2021				SeqNo: 2789505	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	9.3	46.69	47.00	39.8	15	184			
Surr: DNOP	3.4		4.669		72.5	70	130			

Sample ID: 2106B21-001AMSD	SampType: MSD				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BH-2A	Batch ID: 60900				RunNo: 79325					
Prep Date: 6/24/2021	Analysis Date: 6/27/2021				SeqNo: 2789506	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	73	9.7	48.73	47.00	53.9	15	184	11.1	23.9	
Surr: DNOP	3.7		4.873		76.9	70	130	0	0	

Sample ID: LCS-60942	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 60942				RunNo: 79325					
Prep Date: 6/26/2021	Analysis Date: 6/27/2021				SeqNo: 2789806	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.6	70	130			

Sample ID: MB-60942	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 60942				RunNo: 79325					
Prep Date: 6/26/2021	Analysis Date: 6/27/2021				SeqNo: 2789807	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.4		10.00		74.2	70	130			

Qualifiers:

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

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

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

WO#: 2106B21

01-Jul-21

Client: GHD**Project:** Pan Am AIZ Federal #1

Sample ID: mb-60884	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 60884	RunNo: 79458								
Prep Date: 6/23/2021	Analysis Date: 6/29/2021	SeqNo: 2793253			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.0	70	130			

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

Sample ID: lcs-60884	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 60884	RunNo: 79458								
Prep Date: 6/23/2021	Analysis Date: 6/29/2021	SeqNo: 2793255			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1000		1000		100	70	130			

Sample ID: lcs-60919	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 60919	RunNo: 79458								
Prep Date: 6/24/2021	Analysis Date: 6/29/2021	SeqNo: 2793256			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	70	130			

Sample ID: 2106B21-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-2A	Batch ID: 60884	RunNo: 79458								
Prep Date: 6/23/2021	Analysis Date: 6/29/2021	SeqNo: 2793257			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.68	0	100	61.3	114			
Surr: BFB	1000		987.2		105	70	130			

Sample ID: 2106B21-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-2A	Batch ID: 60884	RunNo: 79458								
Prep Date: 6/23/2021	Analysis Date: 6/29/2021	SeqNo: 2793259			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.63	0	102	61.3	114	1.46	20	
Surr: BFB	1000		985.2		106	70	130	0	0	

Qualifiers:

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

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

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

WO#: 2106B21

01-Jul-21

Client: GHD**Project:** Pan Am AIZ Federal #1

Sample ID: mb-60884	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60884	RunNo: 79458								
Prep Date: 6/23/2021	Analysis Date: 6/29/2021	SeqNo: 2793305	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	70	130			

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

Sample ID: lcs-60884	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60884	RunNo: 79458								
Prep Date: 6/23/2021	Analysis Date: 6/29/2021	SeqNo: 2793307	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.7	70	130			

Sample ID: lcs-60919	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60919	RunNo: 79458								
Prep Date: 6/24/2021	Analysis Date: 6/29/2021	SeqNo: 2793308	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Qualifiers:

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

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



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: 2106B21

RcptNo: 1

Received By: Juan Rojas

6/22/2021 7:30:00 AM

Completed By: Cheyenne Cason

6/22/2021 8:08:04 AM

Reviewed By:

JN 6/22/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? 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: T.C. 6.21.21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good				
2	1.2	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard☐ Rush 5-20

Project Name:

Pan Am AIZ Federal #1

Project #:

11228315

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 0.6-0.7 = 0.4

Container
Type and #Preservative
Type1.4-0.7 = 1.2
HEAL No.
2106B21

Date	Time	Matrix	Sample Name
6/21	1000	S	BH-2A
1	1005		BH-3A
	1010		BH-4A
	1015		BH-8A
	1020		BH-9A
	1030		BH-10A
	1035		BH-11A
	1040		BH-13A
	1100		SW-1A
6/21	1110	✓	SW-2A
	1115		SW-3A

Date: 6/21 Time: 0800 Relinquished by: Zach Comino

Received by: [Signature] Via: [Signature] Date: 6/21/21 Time: 800

Date: 6/21 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: [Signature] Date: 6/22/21 Time: 7:30

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

8021A	8021B	8021C	8021D	8021E	8021F	8021G	8021H	8021I	8021J	8021K	8021L	8021M	8021N	8021O	8021P	8021Q	8021R	8021S	8021T	8021U	8021V	8021W	8021X	8021Y	8021Z	8021AA	8021AB	8021AC	8021AD	8021AE	8021AF	8021AG	8021AH	8021AI	8021AJ	8021AK	8021AL	8021AM	8021AN	8021AO	8021AP	8021AQ	8021AR	8021AS	8021AT	8021AU	8021AV	8021AW	8021AX	8021AY	8021AZ	8021BA	8021BB	8021BC	8021BD	8021BE	8021BF	8021BG	8021BH	8021BI	8021BJ	8021BK	8021BL	8021BM	8021BN	8021BO	8021BP	8021BQ	8021BR	8021BS	8021BT	8021BU	8021BV	8021BW	8021BX	8021BY	8021BZ	8021CA	8021CB	8021CC	8021CD	8021CE	8021CF	8021CG	8021CH	8021CI	8021CJ	8021CK	8021CL	8021CM	8021CN	8021CO	8021CP	8021CQ	8021CR	8021CS	8021CT	8021CU	8021CV	8021CW	8021CX	8021CY	8021CZ	8021DA	8021DB	8021DC	8021DD	8021DE	8021DF	8021DG	8021DH	8021DI	8021DJ	8021DK	8021DL	8021DM	8021DN	8021DO	8021DP	8021DQ	8021DR	8021DS	8021DT	8021DU	8021DV	8021DW	8021DX	8021DY	8021DZ	8021EA	8021EB	8021EC	8021ED	8021EE	8021EF	8021EG	8021EH	8021EI	8021EJ	8021EK	8021EL	8021EM	8021EN	8021EO	8021EP	8021EQ	8021ER	8021ES	8021ET	8021EU	8021EV	8021EW	8021EX	8021EY	8021EZ	8021FA	8021FB	8021FC	8021FD	8021FE	8021FF	8021FG	8021FH	8021FI	8021FJ	8021FK	8021FL	8021FM	8021FN	8021FO	8021FP	8021FQ	8021FR	8021FS	8021FT	8021FU	8021FV	8021FW	8021FX	8021FY	8021FZ	8021GA	8021GB	8021GC	8021GD	8021GE	8021GF	8021GG	8021GH	8021GI	8021GJ	8021GK	8021GL	8021GM	8021GN	8021GO	8021GP	8021GQ	8021GR	8021GS	8021GT	8021GU	8021GV	8021GW	8021GX	8021GY	8021GZ	8021HA	8021HB	8021HC	8021HD	8021HE	8021HF	8021HG	8021HH	8021HI	8021HJ	8021HK	8021HL	8021HM	8021HN	8021HO	8021HP	8021HQ	8021HR	8021HS	8021HT	8021HU	8021HV	8021HW	8021HX	8021HY	8021HZ	8021IA	8021IB	8021IC	8021ID	8021IE	8021IF	8021IG	8021IH	8021II	8021IJ	8021IK	8021IL	8021IM	8021IN	8021IO	8021IP	8021IQ	8021IR	8021IS	8021IT	8021IU	8021IV	8021IW	8021IX	8021IY	8021IZ	8021JA	8021JB	8021JC	8021JD	8021JE	8021JF	8021JG	8021JH	8021JI	8021JJ	8021JK	8021JL	8021JM	8021JN	8021JO	8021JP	8021JQ	8021JR	8021JS	8021JT	8021JU	8021JV	8021JW	8021JX	8021JY	8021JZ	8021KA	8021KB	8021KC	8021KD	8021KE	8021KF	8021KG	8021KH	8021KI	8021KJ	8021KK	8021KL	8021KM	8021KN	8021KO	8021KP	8021KQ	8021KR	8021KS	8021KT	8021KU	8021KV	8021KW	8021KX	8021KY	8021KZ	8021LA	8021LB	8021LC	8021LD	8021LE	8021LF	8021LG	8021LH	8021LI	8021LJ	8021LK	8021LM	8021LN	8021LO	8021LP	8021LQ	8021LR	8021LS	8021LT	8021LU	8021LV	8021LW	8021LX	8021LY	8021LZ	8021MA	8021MB	8021MC	8021MD	8021ME	8021MF	8021MG	8021MH	8021MI	8021MJ	8021MK	8021ML	8021MM	8021MN	8021MO	8021MP	8021MQ	8021MR	8021MS	8021MT	8021MU	8021MV	8021MW	8021MX	8021MY	8021MZ	8021NA	8021NB	8021NC	8021ND	8021NE	8021NF	8021NG	8021NH	8021NI	8021NJ	8021NK	8021NL	8021NM	8021NN	8021NO	8021NP	8021NQ	8021NR	8021NS	8021NT	8021NU	8021NV	8021NW	8021NX	8021NY	8021NZ	8021OA	8021OB	8021OC	8021OD	8021OE	8021OF	8021OG	8021OH	8021OI	8021OJ	8021OK	8021OL	8021OM	8021ON	8021OO	8021OP	8021OQ	8021OR	8021OS	8021OT	8021OU	8021OV	8021OW	8021OX	8021OY	8021OZ	8021PA	8021PB	8021PC	8021PD	8021PE	8021PF	8021PG	8021PH	8021PI	8021PJ	8021PK	8021PL	8021PM	8021PN	8021PO	8021PP	8021PQ	8021PR	8021PS	8021PT	8021PU	8021PV	8021PW	8021PX	8021PY	8021PZ	8021QA	8021QB	8021QC	8021QD	8021QE	8021QF	8021QG	8021QH	8021QI	8021QJ	8021QK	8021QL	8021QM	8021QN	8021QO	8021QP	8021QQ	8021QR	8021QS	8021QT	8021QU	8021QV	8021QW	8021QX	8021QY	8021QZ	8021RA	8021RB	8021RC	8021RD	8021RE	8021RF	8021RG	8021RH	8021RI	8021RJ	8021RK	8021RL	8021RM	8021RN	8021RO	8021RP	8021RQ	8021RR	8021RS	8021RT	8021RU	8021RV	8021RW	8021RX	8021RY	8021RZ	8021SA	8021SB	8021SC	8021SD	8021SE	8021SF	8021SG	8021SH	8021SI	8021SJ	8021SK	8021SL	8021SM	8021SN	8021SO	8021SP	8021SQ	8021SR	8021SS	8021ST	8021SU	8021SV	8021SW	8021SX	8021SY	8021SZ	8021TA	8021TB	8021TC	8021TD	8021TE	8021TF	8021TG	8021TH	8021TI	8021TJ	8021TK	8021TL	8021TM	8021TN	8021TO	8021TP	8021TQ	8021TR	8021TS	8021TT	8021TU	8021TV	8021TW	8021TX	8021TY	8021TZ	8021UA	8021UB	8021UC	8021UD	8021UE	8021UF	8021UG	8021UH	8021UI	8021UJ	8021UK	8021UL	8021UM	8021UN	8021UO	8021UP	8021UQ	8021UR	8021US	8021UT	8021UU	8021UV	8021UW	8021UX	8021UY	8021UZ	8021VA	8021VB	8021VC	8021VD	8021VE	8021VF	8021VG	8021VH	8021VI	8021VJ	8021VK	8021VL	8021VM	8021VN	8021VO	8021VP	8021VQ	8021VR	8021VS	8021VT	8021VU	8021VV	8021VW	8021VX	8021VY	8021VZ	8021WA	8021WB	8021WC	8021WD	8021WE	8021WF	8021WG	8021WH	8021WI	8021WJ	8021WK	8021WL	8021WM	8021WN	8021WO	8021WP	8021WQ	8021WR	8021WS	8021WT	8021WU	8021WV	8021WW	8021WX	8021WY	8021WZ	8021XA	8021XB	8021XC	8021XD	8021XE	8021XF	8021XG	8021XH	8021XI	8021XJ	8021XK	8021XL	8021XM	8021XN	8021XO	8021XP	8021XQ	8021XR	8021XS	8021XT	8021XU	8021XV	8021XW	8021XX	8021XY	8021XZ	8021YA	8021YB	8021YC	8021YD	8021YE	8021YF	8021YG	8021YH	8021YI	8021YJ	8021YK	8021YL	8021YM	8021YN	8021YO	8021YP	8021YQ	8021YR	8021YS	8021YT	8021YU	8021YV	8021YW	8021YX	8021YY	8021YZ	8021ZA	8021ZB	8021ZC	8021ZD	8021ZE	8021ZF	8021ZG	8021ZH	8021ZI	8021ZJ	8021ZK	8021ZL	8021ZM	8021ZN	8021ZO	8021ZP	8021ZQ	8021ZR	8021ZS	8021ZT	8021ZU	8021ZV	8021ZW	8021ZX	8021ZY	8021ZZ
TEX / MTBE / TMB's (8021A)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

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

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



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

July 15, 2021

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

RE: Pan Am AIZ Federal 1

OrderNo.: 2107466

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/10/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 2107466

Date Reported: 7/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Pan Am AIZ Federal 1

Lab Order: 2107466**Lab ID:** 2107466-001**Collection Date:** 7/9/2021 8:50:00 AM**Client Sample ID:** BH-2B**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/13/2021 1:43:30 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	19	8.0		mg/Kg	1	7/13/2021 11:05:52 AM	61233
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	7/13/2021 11:05:52 AM	61233
Surr: DNOP	93.2	70-130		%Rec	1	7/13/2021 11:05:52 AM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 1:45:00 AM	61227
Surr: BFB	118	70-130		%Rec	1	7/13/2021 1:45:00 AM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	7/13/2021 1:45:00 AM	61227
Toluene	ND	0.049		mg/Kg	1	7/13/2021 1:45:00 AM	61227
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 1:45:00 AM	61227
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2021 1:45:00 AM	61227
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	7/13/2021 1:45:00 AM	61227

Lab ID: 2107466-002**Collection Date:** 7/9/2021 8:55:00 AM**Client Sample ID:** BH-3B**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/13/2021 1:55:54 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	18	8.5		mg/Kg	1	7/13/2021 11:29:42 AM	61233
Motor Oil Range Organics (MRO)	44	42		mg/Kg	1	7/13/2021 11:29:42 AM	61233
Surr: DNOP	118	70-130		%Rec	1	7/13/2021 11:29:42 AM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2021 2:05:00 AM	61227
Surr: BFB	111	70-130		%Rec	1	7/13/2021 2:05:00 AM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/13/2021 2:05:00 AM	61227
Toluene	ND	0.050		mg/Kg	1	7/13/2021 2:05:00 AM	61227
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2021 2:05:00 AM	61227
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2021 2:05:00 AM	61227
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/13/2021 2:05:00 AM	61227

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

Qualifiers:

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

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

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Analytical Report

Lab Order: 2107466

Date Reported: 7/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Pan Am AIZ Federal 1

Lab Order: 2107466**Lab ID:** 2107466-003**Collection Date:** 7/9/2021 9:00:00 AM**Client Sample ID:** BH-8B**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/13/2021 2:08:18 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	76	9.4		mg/Kg	1	7/13/2021 11:53:34 AM	61233
Motor Oil Range Organics (MRO)	160	47		mg/Kg	1	7/13/2021 11:53:34 AM	61233
Surr: DNOP	117	70-130		%Rec	1	7/13/2021 11:53:34 AM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2021 2:25:00 AM	61227
Surr: BFB	112	70-130		%Rec	1	7/13/2021 2:25:00 AM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/13/2021 2:25:00 AM	61227
Toluene	ND	0.050		mg/Kg	1	7/13/2021 2:25:00 AM	61227
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2021 2:25:00 AM	61227
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2021 2:25:00 AM	61227
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/13/2021 2:25:00 AM	61227

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

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

Analytical Report

Lab Order: 2107466

Date Reported: 7/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Pan Am AIZ Federal 1

Lab Order: 2107466

Lab ID: 2107466-004

Collection Date: 7/9/2021 9:05:00 AM

Client Sample ID: BH-9B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/13/2021 2:20:43 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	83	8.3		mg/Kg	1	7/13/2021 12:41:15 PM	61233
Motor Oil Range Organics (MRO)	150	42		mg/Kg	1	7/13/2021 12:41:15 PM	61233
Surr: DNOP	124	70-130		%Rec	1	7/13/2021 12:41:15 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2021 3:45:00 AM	61227
Surr: BFB	114	70-130		%Rec	1	7/13/2021 3:45:00 AM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/13/2021 3:45:00 AM	61227
Toluene	ND	0.050		mg/Kg	1	7/13/2021 3:45:00 AM	61227
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2021 3:45:00 AM	61227
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2021 3:45:00 AM	61227
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	7/13/2021 3:45:00 AM	61227

Lab ID: 2107466-005

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

Client Sample ID: BH-13B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/13/2021 3:35:09 PM	61263
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	7/13/2021 3:28:31 PM	61233
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	7/13/2021 3:28:31 PM	61233
Surr: DNOP	95.8	70-130		%Rec	1	7/13/2021 3:28:31 PM	61233
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 4:05:00 AM	61227
Surr: BFB	112	70-130		%Rec	1	7/13/2021 4:05:00 AM	61227
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/13/2021 4:05:00 AM	61227
Toluene	ND	0.049		mg/Kg	1	7/13/2021 4:05:00 AM	61227
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 4:05:00 AM	61227
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2021 4:05:00 AM	61227
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	7/13/2021 4:05:00 AM	61227

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

Qualifiers:

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

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

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Analytical ReportLab Order: **2107466**Date Reported: **7/15/2021****Hall Environmental Analysis Laboratory, Inc.**

CLIENT: GHD Midland
Project: Pan Am AIZ Federal 1

Lab Order: 2107466

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

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

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

WO#: 2107466

15-Jul-21

Client: GHD Midland**Project:** Pan Am AIZ Federal 1

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

Sample ID: LCS-61256	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61256	RunNo: 79769								
Prep Date: 7/13/2021	Analysis Date: 7/13/2021	SeqNo: 2806150	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Sample ID: MB-61263	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61263	RunNo: 79769								
Prep Date: 7/13/2021	Analysis Date: 7/13/2021	SeqNo: 2806180	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61263	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61263	RunNo: 79769								
Prep Date: 7/13/2021	Analysis Date: 7/13/2021	SeqNo: 2806181	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Qualifiers:

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

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#: 2107466

15-Jul-21

Client: GHD Midland
Project: Pan Am AIZ Federal 1

Sample ID: MB-61233	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61233	RunNo: 79756								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806322	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		114	70	130			

Sample ID: LCS-61233	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61233	RunNo: 79756								
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806323	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	68.9	141			
Surr: DNOP	5.6		5.000		111	70	130			

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#: 2107466

15-Jul-21

Client: GHD Midland**Project:** Pan Am AIZ Federal 1

Sample ID: mb-61227	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61227	RunNo: 79725								
Prep Date: 7/10/2021	Analysis Date: 7/12/2021	SeqNo: 2804718	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		115	70	130			

Sample ID: lcs-61227	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61227	RunNo: 79725								
Prep Date: 7/10/2021	Analysis Date: 7/12/2021	SeqNo: 2804719	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.7	78.6	131			
Surr: BFB	1300		1000		127	70	130			

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 7 of 8

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

WO#: 2107466

15-Jul-21

Client: GHD Midland
Project: Pan Am AIZ Federal 1

Sample ID: mb-61227	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61227	RunNo: 79725								
Prep Date: 7/10/2021	Analysis Date: 7/12/2021	SeqNo: 2804759	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		114	70	130			

Sample ID: lcs-61227	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61227	RunNo: 79725								
Prep Date: 7/10/2021	Analysis Date: 7/12/2021	SeqNo: 2804760	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	70	130			

Qualifiers:

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

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



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: 2107466

RcptNo: 1

Received By: Cheyenne Cason

7/10/2021 8:00:00 AM

Completed By: Cheyenne Cason

7/10/2021 8:35:34 AM

Reviewed By: *CH 07/10/2021*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? 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: *CH 7/10/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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



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

July 27, 2021

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

RE: Pan AM AIZ Federal 1

OrderNo.: 2107A90

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/22/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2107A90

Date Reported: 7/27/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8

Project: Pan AM AIZ Federal 1

Collection Date: 7/20/2021 10:15:00 AM

Lab ID: 2107A90-001

Matrix: SOIL

Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/26/2021 10:02:53 PM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	9.4	8.9		mg/Kg	1	7/23/2021 5:04:05 PM	61500
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/23/2021 5:04:05 PM	61500
Surr: DNOP	125	70-130		%Rec	1	7/23/2021 5:04:05 PM	61500
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2021 1:34:00 PM	61496
Surr: BFB	111	70-130		%Rec	1	7/24/2021 1:34:00 PM	61496
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/24/2021 1:34:00 PM	61496
Toluene	ND	0.050		mg/Kg	1	7/24/2021 1:34:00 PM	61496
Ethylbenzene	ND	0.050		mg/Kg	1	7/24/2021 1:34:00 PM	61496
Xylenes, Total	ND	0.10		mg/Kg	1	7/24/2021 1:34:00 PM	61496
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	7/24/2021 1:34:00 PM	61496

Refer to the QC Summary report and sample login checklist for flagged QC data 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 2107A90

Date Reported: 7/27/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-9

Project: Pan AM AIZ Federal 1

Collection Date: 7/20/2021 10:50:00 AM

Lab ID: 2107A90-002

Matrix: SOIL

Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/26/2021 11:04:58 PM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	20	8.8		mg/Kg	1	7/23/2021 5:13:46 PM	61500
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/23/2021 5:13:46 PM	61500
Surr: DNOP	165	70-130	S	%Rec	1	7/23/2021 5:13:46 PM	61500
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2021 1:54:00 PM	61496
Surr: BFB	111	70-130		%Rec	1	7/24/2021 1:54:00 PM	61496
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	7/24/2021 1:54:00 PM	61496
Toluene	ND	0.050		mg/Kg	1	7/24/2021 1:54:00 PM	61496
Ethylbenzene	ND	0.050		mg/Kg	1	7/24/2021 1:54:00 PM	61496
Xylenes, Total	ND	0.10		mg/Kg	1	7/24/2021 1:54:00 PM	61496
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	7/24/2021 1:54:00 PM	61496

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107A90

27-Jul-21

Client: GHD Midland

Project: Pan AM AIZ Federal 1

Sample ID: MB-61562	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 61562	RunNo: 80053
Prep Date: 7/26/2021	Analysis Date: 7/26/2021	SeqNo: 2818288 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-61562	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 61562	RunNo: 80053
Prep Date: 7/26/2021	Analysis Date: 7/26/2021	SeqNo: 2818289 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.4 90 110

Qualifiers:

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

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

Page 3 of 6

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

WO#: 2107A90

27-Jul-21

Client: GHD Midland**Project:** Pan AM AIZ Federal 1

Sample ID: MB-61500	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61500	RunNo: 80042								
Prep Date: 7/22/2021	Analysis Date: 7/23/2021	SeqNo: 2816425 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.7	70	130			

Sample ID: LCS-61500	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61500	RunNo: 80042								
Prep Date: 7/22/2021	Analysis Date: 7/23/2021	SeqNo: 2816426 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	109	68.9	141			
Surr: DNOP	4.0		5.000		80.7	70	130			

Qualifiers:

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

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

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

WO#: 2107A90

27-Jul-21

Client: GHD Midland**Project:** Pan AM AIZ Federal 1

Sample ID: mb-61491	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61491				RunNo: 80029					
Prep Date: 7/22/2021	Analysis Date: 7/23/2021				SeqNo: 2818753	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		120	70	130			

Sample ID: mb-61496	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 61496				RunNo: 80029					
Prep Date: 7/22/2021	Analysis Date: 7/24/2021				SeqNo: 2818754	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		113	70	130			

Sample ID: lcs-61491	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61491				RunNo: 80029					
Prep Date: 7/22/2021	Analysis Date: 7/23/2021				SeqNo: 2818755	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1300		1000		127	70	130			

Sample ID: lcs-61496	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 61496				RunNo: 80029					
Prep Date: 7/22/2021	Analysis Date: 7/24/2021				SeqNo: 2818757	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.9	78.6	131			
Surr: BFB	1300		1000		126	70	130			

Qualifiers:

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

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

Page 5 of 6

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

WO#: 2107A90

27-Jul-21

Client: GHD Midland**Project:** Pan AM AIZ Federal 1

Sample ID: mb-61491	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 61491		RunNo: 80029							
Prep Date: 7/22/2021	Analysis Date: 7/23/2021		SeqNo: 2818955		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		118	70	130			

Sample ID: mb-61496	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 61496		RunNo: 80029							
Prep Date: 7/22/2021	Analysis Date: 7/24/2021		SeqNo: 2818956		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: lcs-61491	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 61491		RunNo: 80029							
Prep Date: 7/22/2021	Analysis Date: 7/23/2021		SeqNo: 2818957		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		116	70	130			

Sample ID: lcs-61496	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 61496		RunNo: 80029							
Prep Date: 7/22/2021	Analysis Date: 7/24/2021		SeqNo: 2818959		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	70	130			

Qualifiers:

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

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 6 of 6



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: 2107A90

RcptNo: 1

Received By: Juan Rojas

7/22/2021 7:30:00 AM

Completed By: Sean Livingston

7/22/2021 7:58:49 AM

Reviewed By:

JR 7/22/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered?

Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? 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: SPA 7.22.21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good				
2	1.4	Good				

Turn-Around Time:

☐ Standard ☒ Rush 3 Day

Project Name:

Pan Am AIZ Federal # 1

Project #:

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino Heath Board

On Ice: ☒ Yes ☐ No

of Coolers: 7

Cooler Temp(including CF): $5.650 - 1 = 4.5$

Container Type and #	Preservative Type
-------------------------	----------------------

HEAL No. 2107A90

Jan 407 1

Received by:	Via:	Date	Time
<i>[Signature]</i>		7/21/21	900

Received by:	Via:	Date	Time
PA	10 Under	7/22/11	7:30



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks: Please email: Chase_Settle@eogresources.com;
Tom.Larson@ghd.com; Zach.Comino@ghd.com: 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.

Appendix D Waste Manifests

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

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: EOG Resources, Inc. 104 South Fourth Street, Artesia, NM 88210
2. Originating Site: Pan Am Pardue ALZ Federal I
3. Location of Material (Street Address, City, State or ULSTR): Section 27-T21S-R24E, Eddy County, NM
4. Source and Description of Waste: Soil impacted by produced water and oil
EOG Resources, Inc. authorizes Gandy Marley to complete the required testing and sign the Generator Waste Testing Certificate.
Estimated Volume 250 yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd ³ / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Tina Huerta <u>Tina Huerta</u> , representative or authorized agent for EOG Resources, Inc. do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <i>Operator Use Only: Waste Acceptance Frequency</i> <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: BDS

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Lea Land, LLC Permit #WM-1-035

Address of Facility: MM64 US Highway 62/180 East, Carlsbad, NM 88220

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☒ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Shelley Denton TITLE: Manager DATE: 5-26-21
SIGNATURE: [Signature] TELEPHONE NO.: 405-236-4257
Surface Waste Management Facility Authorized Agent

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

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

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

EOG Resources, Inc. – 104 S 4th Street, Artesia NM 88210

2. Originating Site:

Pan Am Pardue AIZ Federal 001

3. Location of Material (Street Address, City, State or ULSTR):

N-27-21S-24E Eddy County

4. Source and Description of Waste:

Impacted Soil - Oil

EOG Resources, Inc. authorizes Envirotech to complete the required testing and sign the Generator Waste Testing Certification.

Estimated Volume 250 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Lacev Granillo, representative or authorized agent for EOG Resources, Inc. do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☒ Monthly ☐ Weekly ☐ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:

CCI

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Lea Land, LLC Permit #WM-1-035

Address of Facility: MM64 US Highway 62/180 East, Carlsbad, NM 88220

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____

TITLE: _____

DATE: _____

SIGNATURE: _____

TELEPHONE NO.: _____

Surface Waste Management Facility Authorized Agent

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO **143568**

1. PAGE ___ OF ___

2. TRAILER NO. **BDS 49**

G 3. COMPANY NAME **E.O.G. Resources** 4. ADDRESS **105 South 4th St.** 5. PICK-UP DATE **6/4/2021**
E PHONE NO. **(575) 748-1471** CITY **Artesia** STATE **NM** ZIP **88210** 6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS No. Type 9. TOTAL QUANTITY 10. UNIT Wt/Vol. 11. TEXAS WASTE ID #

a. **Non-Regulated, Non Hazardous Waste**

1 CM

b.

c.

d. **WT: 34140**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

A AIZ FED COM #001

IN CASE OF EMERGENCY OR SPILL, CONTACT

T 14. NAME **JOE ONTIVEROS** PHONE NO **575-887-4048** 24-HOUR EMERGENCY NO.

O 15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R PRINTED/TYPED NAME **CO. MAN: CHASE SETTLE** SIGNATURE DATE

T 16. TRANSPORTER (1) NAME: **BDS ENTERPRISES**

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **BRIAN STEVENS**

EMERGENCY PHONE: **(575) 302-8498**

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME **Jose L Garcia**

SIGNATURE **Jose L Garcia**

DATE **6/4/2021**

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

D **F** **I** **A** **S** **C** **P** **I** **O** **L** **S** **I** **A** **T** **L** **E** **A** **L** **L** **C**

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE **Santos**

CELL NO. **Monzalez**

DATE

6/4/2021

TIME

7:25

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

BDS

NON-HAZARDOUS WASTE MANIFEST

NO 143589

1. PAGE ___ OF ___

2. TRAILER NO. LeD

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources PHONE NO. (575) 748-1471		4. ADDRESS 105 South 4th St. CITY STATE ZIP Artesia NM 88210		5. PICK-UP DATE 8/4/2021	
					6. TNRCC I.D. NO.	
N E R E S T E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: a. Non-Regulated, Non Hazardous Waste b. c. d. WT: 18,140			8. CONTAINERS No. Type 1 CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: AIZ FED COM # 001				13. WASTE PROFILE NO.	
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
D I S C O L D S I T E	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE		DATE
D I S C O L D S I T E	16. TRANSPORTER (1) NAME: BDS ENTERPRISES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: BRIAN STEVENS EMERGENCY PHONE: (575) 302-8498			17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Victor Mendez			19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME		
	SIGNATURE [Signature] DATE 8/4/2021			SIGNATURE DATE		
D I S C O L D S I T E	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
D I S C O L D S I T E	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE [Signature]		CELL NO. [Signature]		DATE 8/4/2021	TIME 11:40

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

STG

NON-HAZARDOUS WASTE MANIFESTNO **145163**

1. PAGE ___ OF ___

2. TRAILER NO.

22

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources		4. ADDRESS 105 South 4th St.		5. PICK-UP DATE 8/9/2021		
	PHONE NO. (575) 748-1471		CITY Artesia	STATE NM	ZIP 88210	6. TNRCC I.D. NO.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste			1 CM			
R E C E I V E R	b.						
	c.						
	WT: 26,320						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL # 1			13. WASTE PROFILE NO.			
T R A N S P O R T E R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.		
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE		DATE	
T R A N S P O R T E R	16. TRANSPORTER (1)			17. TRANSPORTER (2)			
	NAME: CCI			NAME:			
	TEXAS I.D. NO.			TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON			IN CASE OF EMERGENCY CONTACT:			
D I S P O S I T O R Y	EMERGENCY PHONE: (432) 741-2509			EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED/TYPED NAME Jerome A.			PRINTED/TYPED NAME			
	SIGNATURE Jerome A. DATE 8/9/2021			SIGNATURE DATE			
D I S P O S I T O R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
	AUTHORIZED SIGNATURE Santa		CELL NO.		DATE 8/9/2021	TIME 12:50	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO **145164**

1. PAGE ____ OF ____

2. TRAILER NO. **06**

J. Tarini

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources		4. ADDRESS 105 South 4th St.		5. PICK-UP DATE 8/9/2021	
	PHONE NO. (575) 748-1471		CITY Artesia	STATE NM	ZIP 88210	6. TNRCC I.D. NO.
N E R E S T R A N S P O R T E R S	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	Non-Regulated, Non Hazardous Waste				1 CM	
	b.					
A U T H O R I Z E D	c.					
	WT: 26840					
T R A N S P O R T E R S	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARQUE AIZ FEDERAL # 1				13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
D I S P O S I T O R Y	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
D I S P O S I T O R Y	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE		SIGNATURE		DATE	
	16. TRANSPORTER (1)		17. TRANSPORTER (2)			
D I S P O S I T O R Y	NAME: CCI		NAME:			
	TEXAS I.D. NO.		TEXAS I.D. NO.			
D I S P O S I T O R Y	IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON		IN CASE OF EMERGENCY CONTACT:			
	EMERGENCY PHONE: (432) 741-2508		EMERGENCY PHONE:			
D I S P O S I T O R Y	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED/TYPED NAME <i>[Signature]</i>		PRINTED/TYPED NAME _____			
D I S P O S I T O R Y	SIGNATURE <i>[Signature]</i>		SIGNATURE _____			
	DATE 8/9/2021		DATE _____			
D I S P O S I T O R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
D I S P O S I T O R Y	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO.		DATE 8/9/2021	TIME 12:55

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

2 Boys

NON-HAZARDOUS WASTE MANIFEST

NO **145165**

1. PAGE ____ OF ____

2. TRAILER NO. **01**

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3. COMPANY NAME
E.O.G. Resources

PHONE NO.
(575) 748-1471

4. ADDRESS
105 South 4th St.

CITY
Artesia

STATE
NM

ZIP
88210

5. PICK-UP DATE
8/9/2021

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

b.

c.

WT: **25,310**

8. CONTAINERS
No. Type

1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL # 1

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

CO. MAN: CHASE SETTLE

SIGNATURE

DATE

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16. TRANSPORTER (1)

NAME:

CCI

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **LUIS GAVALDON**

EMERGENCY PHONE:

(432) 741-2508

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME **Alfonso Celis**

SIGNATURE **Alfonso Celis** DATE **8/9/2021**

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

Sanchez

Monzales

8/9/2021

00

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Porras

NON-HAZARDOUS WASTE MANIFEST

NO **145166**

1. PAGE OF

2. TRAILER NO. **90**

G
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3. COMPANY NAME
E.O.G. Resources

PHONE NO.
(575) 748-1471

4. ADDRESS
105 South 4th St.

CITY
Artesia

STATE
NM

ZIP
88210

5. PICK-UP DATE
8/9/2021

6. TNRC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

8. CONTAINERS
No. Type

1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

b.

c.

WT: **26,500**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL # 1

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

CO. MAN: CHASE SETTLE

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME:

CCI

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **LUIS GAVALDON**

EMERGENCY PHONE:

(432) 741-2509

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

Carlos Porras

SIGNATURE

DATE

8/9/2021

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Shirley

CELL NO.

DATE

8/9/2021

TIME

1:00

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Porras

NON-HAZARDOUS WASTE MANIFEST

NO **145167**

1. PAGE ___ OF ___

2. TRAILER NO. **104**

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources		4. ADDRESS 105 South 4th St.		5. DATE 8/9/2021		
	PHONE NO. (575) 748-1471		CITY Artesia	STATE NM	ZIP 88210	6. TNRCC I.D. NO.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste			1 CM			
T R A N S P O R T E R S	b.						
	c.						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL # 1			13. WASTE PROFILE NO.			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
D I S P O S I T Y	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.		
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE		DATE	
D I S P O S I T Y	16. TRANSPORTER (1)			17. TRANSPORTER (2)			
	NAME: CCI			NAME:			
	TEXAS I.D. NO.			TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON			IN CASE OF EMERGENCY CONTACT:			
D I S P O S I T Y	EMERGENCY PHONE: (432) 741-2509			EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED/TYPED NAME Marcos			PRINTED/TYPED NAME			
	SIGNATURE [Signature] DATE 8/9/2021			SIGNATURE DATE			
D I S P O S I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
	AUTHORIZED SIGNATURE [Signature]		CELL NO.		DATE 8/9/2021	TIME 1:00	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO **145168**

1. PAGE OF

2. TRAILER NO. **04**

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3. COMPANY NAME
E.O.G. Resources

PHONE NO.
(575) 748-1471

4. ADDRESS
105 South 4th St.

CITY
Artesia

STATE
NM

ZIP
88210

5. PICK UP DATE
8/9/2021

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

b.

c.

WT: **28120**

8. CONTAINERS
No. Type

1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL # 1

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME
JOE ONTIVEROS

PHONE NO
575-887-4048

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

CO. MAN: CHASE SETTLE

SIGNATURE

DATE

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16. TRANSPORTER (1)

NAME: **CCI**

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **LUIS GAVALDON**

EMERGENCY PHONE: **(432) 741-2509**

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME **Fernando S.**

SIGNATURE **Fernando S.** DATE **8/9/2021**

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

8/9/2021

05

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

AF

NON-HAZARDOUS WASTE MANIFEST

NO **145169**

1. PAGE ___ OF ___

2. TRAILER NO. **01**

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3. COMPANY NAME
E.O.G. Resources

PHONE NO.

(575) 748-1471

4. ADDRESS
105 South 4th St.

CITY

Artesia

STATE

NM

ZIP

88210

5. PICK-UP DATE
8/9/2021

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non Hazardous Waste

b.

c.

wt: **27980**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL # 1

8. CONTAINERS
No. Type

1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOE ONTIVEROS

PHONE NO

575-887-4048

24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

CO. MAN: CHASE SETTLE

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME:

CCI

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **LUIS GAVALDON**

EMERGENCY PHONE: **(432) 741-2509**

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

8/9/2021

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

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Lea Land, LLC

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

8/9/2021

TIME

1:10

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

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NON-HAZARDOUS WASTE MANIFEST

NO **145170**

1. PAGE OF

2. TRAILER NO. **04**

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3. COMPANY NAME
E.O.G. Resources

PHONE NO.
(575) 748-1471

4. ADDRESS
105 South 4th St.

CITY
Artesia

STATE
NM

ZIP

88210

5. PICK-UP DATE
8/8/2021

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

b.

c.

WT: **21,240**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL # 1

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

CO. MAN: CHASE SETTLE

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME:

CCI

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

LUIS GAVALDON

EMERGENCY PHONE:

(432) 741-2509

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

JOHAN SOMMER

SIGNATURE

DATE

8/8/2021

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

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Lea Land, LLC

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Santa

Monzalez

CELL NO.

DATE

8/8/2021

TIME

10

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

El Taalero

NON-HAZARDOUS WASTE MANIFEST

NO **145171**

1. PAGE ___ OF ___

2. TRAILER NO. **07**

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3. COMPANY NAME
E.O.G. Resources
PHONE NO.
(575) 748-1471

4. ADDRESS
105 South 4th St.
CITY STATE ZIP
Artesia NM 88210

5. PICK-UP DATE
8/9/2021

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

8. CONTAINERS
No. Type

1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

b.
c.

WT: **235X10**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL #1

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME PHONE NO
JOE ONTIVEROS 575-887-4048

24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME
CO. MAN: CHASE SETTLE

SIGNATURE DATE

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16. TRANSPORTER (1)

NAME: **CCI**
TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: **LUIS GAVALDON**
(432) 741-2509
EMERGENCY PHONE:

17. TRANSPORTER (2)

NAME:
TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME **ANGIE CHASE**

SIGNATURE **ANGIE CHASE** DATE **8/9/2021**

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE DATE

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Lea Land, LLC ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM PHONE: 575-887-4048

PERMIT NO.
WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME **10**

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

El Taguero

NON-HAZARDOUS WASTE MANIFEST

NO **145172**

1. PAGE ___ OF ___

2. TRAILER NO. **110**

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources		4. ADDRESS 105 South 4th St.		5. DATE 8/9/2021		
	PHONE NO. (575) 748-1471		CITY Artesia	STATE NM	ZIP 88210	6. TNRCC I.D. NO.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste			1 CM			
T R A N S P O R T E R S	b.						
	c.						
	WT: 21840						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL # 1			13. WASTE PROFILE NO.			
D I S P O S I T O R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.		
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE			DATE
D I S P O S I T O R S	16. TRANSPORTER (1)			17. TRANSPORTER (2)			
	NAME: CCI			NAME:			
	TEXAS I.D. NO.			TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON			IN CASE OF EMERGENCY CONTACT:			
D I S P O S I T O R S	EMERGENCY PHONE: (432) 741-2509			EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED/TYPED NAME <i>Jose Estrada</i>			PRINTED/TYPED NAME			
	SIGNATURE <i>Jose Estrada</i> DATE 8/9/2021			SIGNATURE DATE			
D I S P O S I T O R S	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
	AUTHORIZED SIGNATURE <i>Santha</i>		CELL NO.		DATE 8/9/2021	TIME 1:15	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Porras***NON-HAZARDOUS WASTE MANIFEST**NO **145233**

1. PAGE ____ OF ____

2. TRAILER NO. **90**

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources		4. ADDRESS 105 South 4th St.		5. PICK-UP DATE 8/10/2021	
	PHONE NO. (575) 748-1471		CITY Artesia	STATE NM	ZIP 88210	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type		9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	Non-Regulated, Non Hazardous Waste		1 CM			
R E C E I V E R	b.					
	c.					
	WT: 25320					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL # 1		13. WASTE PROFILE NO.			
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE DATE		
D I S P O S I T O R	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: CCI			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON			IN CASE OF EMERGENCY CONTACT:		
A U T H O R I Z E D S I G N A T U R E	EMERGENCY PHONE: (432) 741-2508			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME Carlos Porras			PRINTED/TYPED NAME		
	SIGNATURE [Signature] DATE 8/10/2021			SIGNATURE DATE		
D I S P O S I T O R	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE [Signature]		CELL NO.		DATE 8/10/2021	TIME 12:15

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

2 Bays

NON-HAZARDOUS WASTE MANIFEST

NO **145234**

1. PAGE OF

2. TRAILER NO. **01**

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3. COMPANY NAME
E.O.G. Resources

PHONE NO.
(575) 748-1471

4. ADDRESS
105 South 4th St.

CITY
Artesia

STATE
NM

ZIP
88210

5. PICK-UP DATE
8/10/2021

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

b.

c.

WT: **21580**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL # 1

8. CONTAINERS
No. Type

1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME
JOE ONTIVEROS

PHONE NO
575-887-4048

24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

CO. MAN. CHASE SETTLE
PRINTED/TYPED NAME

SIGNATURE

DATE

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16. TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

LUIS GAVALDON
(432) 741-2509

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME **Altowso Celis**

SIGNATURE **Altowso Celis** DATE **8/10/2021**

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Santos Gonzalez

CELL NO.

DATE

8/10/2021

TIME

12:20

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

El Taguero
2 Bays
010**NON-HAZARDOUS WASTE MANIFEST**NO **145235**

1. PAGE ___ OF ___

2. TRAILER NO.

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R3. COMPANY NAME
E.O.G. Resources4. ADDRESS
105 South 4th St.5. PICK-UP DATE
8/10/2021PHONE NO.
(575) 748-1471CITY
ArtesiaSTATE
NMZIP
88210

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type9. TOTAL
QUANTITY10. UNIT
Wt/Vol.11. TEXAS
WASTE ID #**Non-Regulated, Non Hazardous Waste****1 CM**

b.

c.

WT: **25220**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARQUE AIZ FEDERAL # 1

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS**575-887-4048**15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

CO. MAN: CHASE SETTLET
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S16. **TRANSPORTER (1)**NAME: **CCI**

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **LUIS GAVALDON**EMERGENCY PHONE: **(432) 741-2509**17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1): Acknowledgment of receipt of material**19. **TRANSPORTER (2): Acknowledgment of receipt of material**

PRINTED/TYPED NAME

PRINTED/TYPED NAME

SIGNATURE

DATE

8/10/2021

SIGNATURE

DATE

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Y**Lea Land, LLC**

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

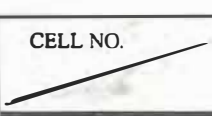
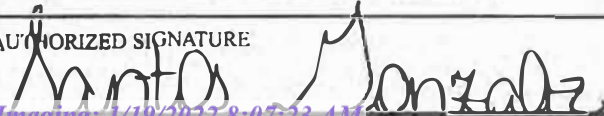
21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

**8/10/2021****12:20**

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Porras
D4

NON-HAZARDOUS WASTE MANIFEST

NO **145236**

1. PAGE ___ OF ___

2. TRAILER NO. **D4**

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources		4. ADDRESS 105 South 4th St.		5. PICK-UP DATE 8/10/2021	
	PHONE NO. (575) 748-1471		CITY Artesia	STATE NM	ZIP 88210	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste		1 CM			
T R A N S P O R T E R S	b.					
	c.					
	WT: 26580					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARQUE AIZ FEDERAL # 1		13. WASTE PROFILE NO.			
D I S P O S I T A R Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE		
D I S P O S I T A R Y	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: CCI			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON			IN CASE OF EMERGENCY CONTACT:		
D I S P O S I T A R Y	EMERGENCY PHONE: (432) 741-2509			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME Marcoskey			PRINTED/TYPED NAME		
	SIGNATURE [Signature] DATE 8/10/2021			SIGNATURE DATE		
D I S P O S I T A R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE [Signature]		CELL NO.		DATE 8/10/2021	TIME 12:30

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

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NON-HAZARDOUS WASTE MANIFEST

NO **145237**

1. PAGE ___ OF ___

2. TRAILER NO. **22**

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3. COMPANY NAME
E.O.G. Resources

PHONE NO.
(575) 748-1471

4. ADDRESS
105 South 4th St.

CITY
Artesia

STATE
NM

ZIP
88210

5. PICK-UP DATE
8/10/2021

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

b.

c.

WT: **22920**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL # 1

8. CONTAINERS
No. Type

1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME
JOE ONTIVEROS

PHONE NO
575-887-4048

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

CO. MAN: CHASE SETTLE

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME: **CCI**

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **LUIS GAVALDON**

EMERGENCY PHONE: **(432) 741-2509**

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

8/10/2021

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

Santos

Bonzalez

8/10/2021

12:35

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

El Taguero
07

NON-HAZARDOUS WASTE MANIFEST		NO 145238		1. PAGE ___ OF ___		2. TRAILER NO. 07	
GENERATOR	3. COMPANY NAME E.O.G. Resources		4. ADDRESS 105 South 4th St.		5. PICK UP DATE 8/10/2021		
	PHONE NO. (575) 748-1471		CITY Artesia		STATE NM		6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type		9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste		1 CM				
	b.						
TRANSPORTER	c.						
	WWT: 24820						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL # 1				13. WASTE PROFILE NO.		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.		
DISPOSAL SITE	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE		SIGNATURE		DATE		
	16. TRANSPORTER (1)		17. TRANSPORTER (2)				
	NAME: CCI		NAME:				
	TEXAS I.D. NO.		TEXAS I.D. NO.				
IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON		IN CASE OF EMERGENCY CONTACT:					
EMERGENCY PHONE: (432) 741-2508		EMERGENCY PHONE:					
18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME Angela				PRINTED/TYPED NAME			
SIGNATURE Angela DATE 8/10/2021				SIGNATURE DATE			
DISPOSAL SITE	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
	AUTHORIZED SIGNATURE Santos		CELL NO.		DATE 8/10/2021		TIME 12:35
	DISPOSAL SITE: COPIES 2 & 3		TRANSPORTERS: COPIES 4 & 5				

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO **145239**

1. PAGE OF

2. TRAILER NO. **AF**

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources		4. ADDRESS 105 South 4th St.		5. PICK-UP DATE 8/10/2021		
	PHONE NO. (575) 748-1471		CITY Artesia	STATE NM	ZIP 88210	6. TNRCC I.D. NO.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste			1 CM			
T R A N S P O R T E R S	b.						
	c.						
	WT: 21940						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL #1			13. WASTE PROFILE NO.			
D I S P O S I T O R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.		
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE		DATE	
D I S P O S I T O R	16. TRANSPORTER (1)			17. TRANSPORTER (2)			
	NAME: CCI			NAME:			
	TEXAS I.D. NO.			TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON			IN CASE OF EMERGENCY CONTACT:			
D I S P O S I T O R	EMERGENCY PHONE: (432) 741-2509			EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED/TYPED NAME Rosalba Montalvo			PRINTED/TYPED NAME			
	SIGNATURE Rosalba Montalvo DATE 8/10/2021			SIGNATURE DATE			
D I S P O S I T O R	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
	AUTHORIZED SIGNATURE Antonio Montalvo		CELL NO.		DATE 8/10/2021	TIME 12:40	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

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NON-HAZARDOUS WASTE MANIFEST

NO **145240**

1. PAGE ___ OF ___

2. TRAILER NO. **D4**

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3. COMPANY NAME
E.O.G. Resources

PHONE NO.
(575) 748-1471

4. ADDRESS
105 South 4th St.

CITY
Artesia

STATE
NM

ZIP
88210

5. PICK-UP DATE
8/10/2021

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

b.

c.

WT: **24140**

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PAN AM PARDUE AIZ FEDERAL # 1

8. CONTAINERS
No. Type

1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

CO. MAN: CHASE SETTLE

SIGNATURE

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16. TRANSPORTER (1)

NAME: **CCI**

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **LUIS GAVALDON**

EMERGENCY PHONE: **(432) 741-2509**

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME **JOHN SOMMER**

SIGNATURE **[Signature]** DATE **8/10/2021**

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

[Signature]

CELL NO.

DATE

8/10/2021

TIME

12:45

Incident ID	nAPP2111040373
District RP	
Facility ID	
Application ID	

Remediation Plan


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

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature:  Date: 08/31/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Robert Hamlet Date: 1/19/2022

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

Signature:  Date: 1/19/2022

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 45776

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 45776
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Workplan/Remediation Plan is approved: Please backfill the excavation with clean non-impacted material so site reclamation can be completed.	1/19/2022