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

*			OGRID 73			
Contact Name Chase Settle			Contact Te	elephone 575-748-1471		
Contact email Chase_Settle@eogresources.com			Incident #	(assigned by OCD) nAPP2111040373		
Contact mai	ling address	104 S. 4th Str	eet, Artesia,	NM 88	3210	
					elease So	ource
Latitude 32	.44649		(NAD 83 in a	lecimal de	Longitude _ grees to 5 decim	-104.49013 nal places)
Site Name P	an Am Pa	ardue AIZ Fed	eral #1		Site Type E	Battery
Date Release	Discovered	04/07/2021			API# (if app	licable) 30-015-10728
Unit Letter	Section	Township	Range		Coun	
N	27	21S	24E	Edd		
	Materia	Federal Tr	Nature an	d Vol		justification for the volumes provided below)
Crude Oi			ed (bbls) Unkno	wn		Volume Recovered (bbls) 0
Produced	Water	Volume Release				Volume Recovered (bbls)
		Is the concentrate produced water	tion of dissolved >10.000 mg/l?	chloride	e in the	Yes No
Condensa	ate	Volume Release				Volume Recovered (bbls)
Natural C	Gas	Volume Release	ed (Mcf)			Volume Recovered (Mcf)
Other (de	escribe)	Volume/Weight	Released (providence)	de units))	Volume/Weight Recovered (provide units)
Cause of Rel	ease	•				
Historica	l impacts	discovered du	uring the P& <i>i</i>	A of th	e well. R	elease volume and date are unknown.

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Page 2 Oil Conservation Division

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Incident ID	nAPP2111040373
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
☐ Yes ☑ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	unless they could create a safety hazard that would result in injury
✓ The source of the rele	ease has been stopped.	
☑ The impacted area ha	s been secured to protect human health and	the environment.
✓ Released materials has	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
✓ All free liquids and re	ecoverable materials have been removed and	I managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
public health or the environr failed to adequately investig	ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	Contains and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Chase	Settle	Title: Rep Safety & Environmental Sr
Signature: Than	o Vettu	Date: 04/19/2021
email: Chase_Settle	@eogresources.com	Telephone: <u>575-748-1471</u>
OCD Only		
Received by:		Date:

	Page 3 of 12	26
Incident ID	nAPP2111040373	
District RP		
Facility ID		
Application ID		

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?	☐ Yes ☑ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	✓ Yes ☐ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 ✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ✓ Field data ✓ Data table of soil contaminant concentration data ✓ Depth to water determination ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information ✓ Topographic/Aerial maps ✓ Laboratory data including chain of custody 		

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

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Incident ID	nAPP2111040373
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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	
Printed Name: Chase Settle Signature: Chase Settle	Date:08/31/2021	
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only		
Received by:	Date:	

	Page 5 of 1.	26
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e 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 con	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of	
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr	
Signature: The Sittle	Date: 08/31/2021	
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only		
Received by:	Date:	
☐ Approved ☐ Approved with Attached Conditions of	Approval	
Signature:	Date:	

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Closure

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

Closure Report Attachment Checklist: Each of the following is	tems must be included in the closure report.	
✓ A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office	
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rephuman health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in	
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr	
Signature: <u>Chase Settle</u>	Date: 03/29/2022	
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only		
Received by:	Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.	
Closure Approved by:	Date: _ 04/18/2022	
Printed Name:Jennifer Nobui	Title: Environmental Specialist A	

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



Our ref: 11228315

March 25, 2022

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

Re: Site Characterization and Closure Report 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:

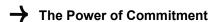
1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, analyses, and remedial activities in the affected areas at the EOG 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.

A Site Characterization and Remediation Work Plan (Backfill Request) dated August 31, 2021 was submitted to the NMOCD for approval. The report documented delineation and remediation activities at the site and requested approval to backfill the excavation. The work plan was approved by the NMOCD on January 19, 2022. The Release Notification, Site Assessment/Characterization, Remediation Plan and Closure 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

→ The Power of Commitment

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 resampled 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.

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6. nAPP2111040373 Closure Request

On January 19, 2022, the NMOCD approved the Site Characterization and Remediation Work Plan (Backfill Request). The Excavation was backfilled with non-impacted material on January 25, 2022. Site Characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2111040373.

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

Zach H. Comino Field Geologist

BH/ZC/1

Encl. Figure 1 – Site Location Map

Rebecca Haskell

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

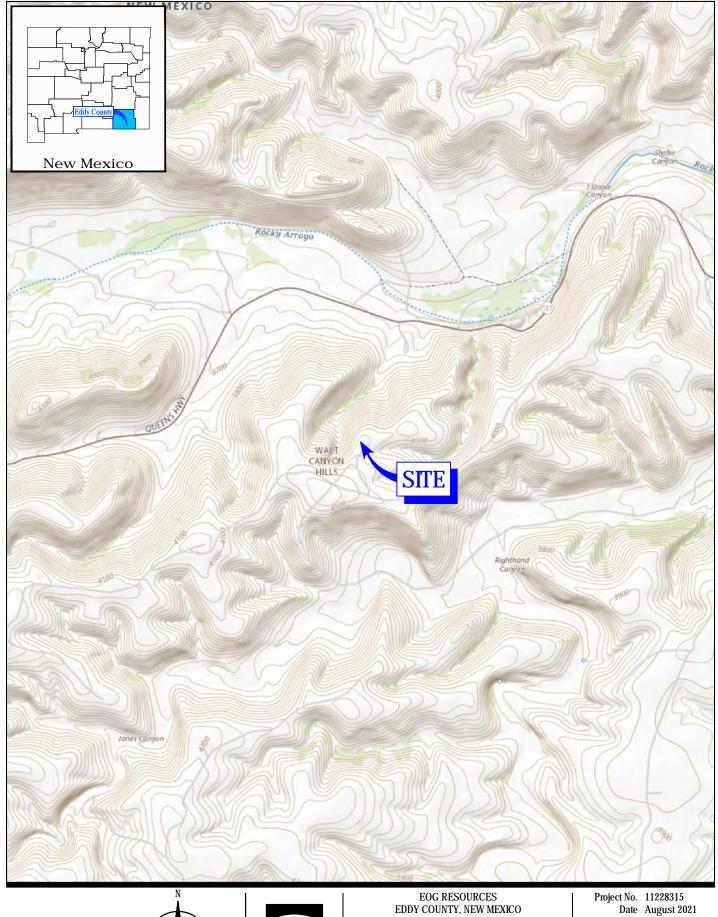
Attachment B - Photographic Log

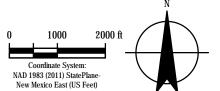
Attachment C - Laboratory Analytical Reports and Chain-of-Custody Documentation

Attachment D – Waste Manifests

cc: Chase Settle

Figures







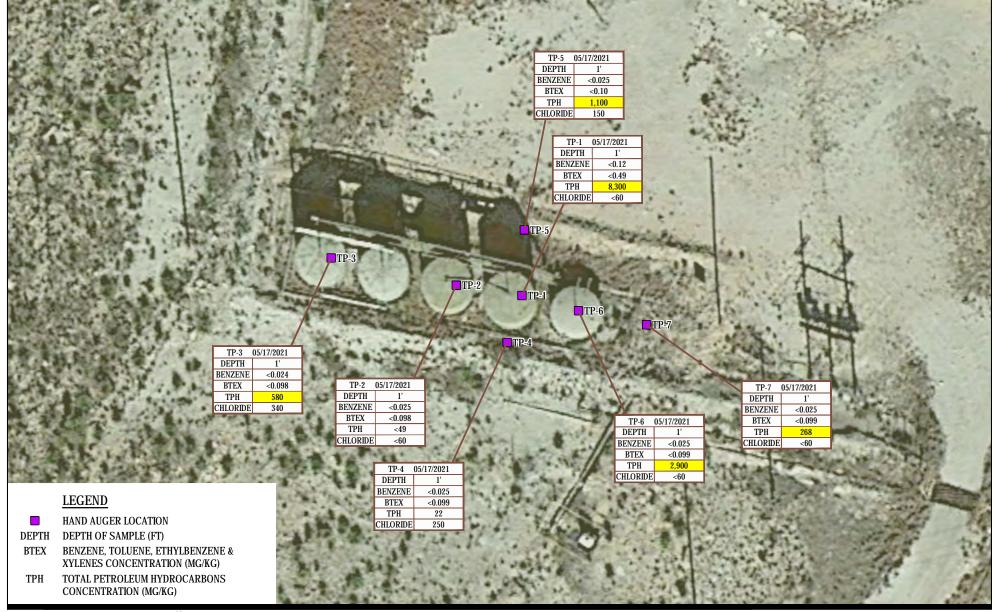
EDDY COUNTY, NEW MEXICO PAN AM AIZ FEDERAL No. 1

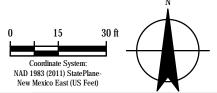
SITE LOCATION MAP

FIGURE 1

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by OCD:





NOTES:

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

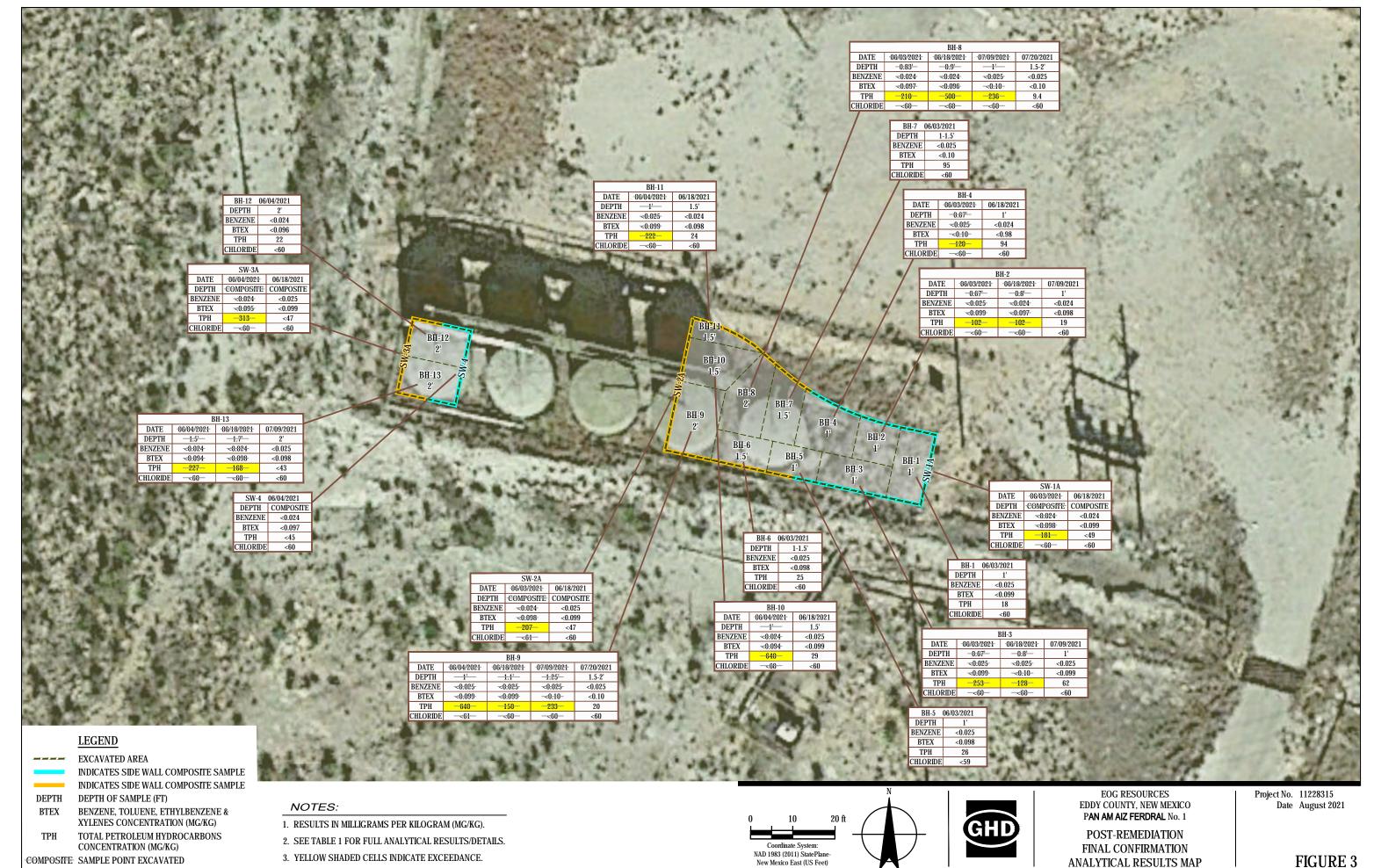


EOG RESOURCES
EDDY COUNTY, NEW MEXICO
PAN AM AIZ FEDERAL No. 1

SITE ASSESSMENT: SOIL ANALYTICAL RESULTS MAP Project No. 11228315 Date August 2021

FIGURE 2

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Tables

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

				Pan A	Table 1 of Soil Analytical Am AIZ Federal #1 OG Resources County, New Mexic						Page 1	of 2
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO	DRO	TPH MRO	Total	Chloride
Sample ID	Sample Date	Depth (feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(C6-C10) (mg/Kg)	(C10-C28) (mg/Kg)	(C28-C35) (mg/Kg)	GRO/DRO/MRO (mg/Kg)	(mg/Kg)
			40						undwater 19.15		400 116	C00 //
			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		1										
TP7 5/17/21 1 <0.025 <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	178	253	<60
BH-3A	6/18/21	0.8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	52	76	128	<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-6A	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	4.5	<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**

				Pan A EC	Table 1 of Soil Analytical I Im AIZ Federal #1 DG Resources ounty, New Mexic						Page 2	of 2
Courselo ID	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	TPH MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
						losure Criteria			undwater 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	168	<60
BH-13B	7/9/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.7	<43	<43	<60
				Sia	le Wall Confirmati	on 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.

B-BH-2 Sample Point Excavated

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

Attachment A Site Characterization Documentation

Pan Am AIZ Federal #1

Karst Potential Map

Pan Am AIZ Federal #1

Legend







Pan Am AlZ Federal #1



Pan Am AIZ Federal #1



7/4/2021 2:09:47 PM

GIS WATERS PODs

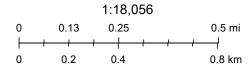


OSE District Boundary

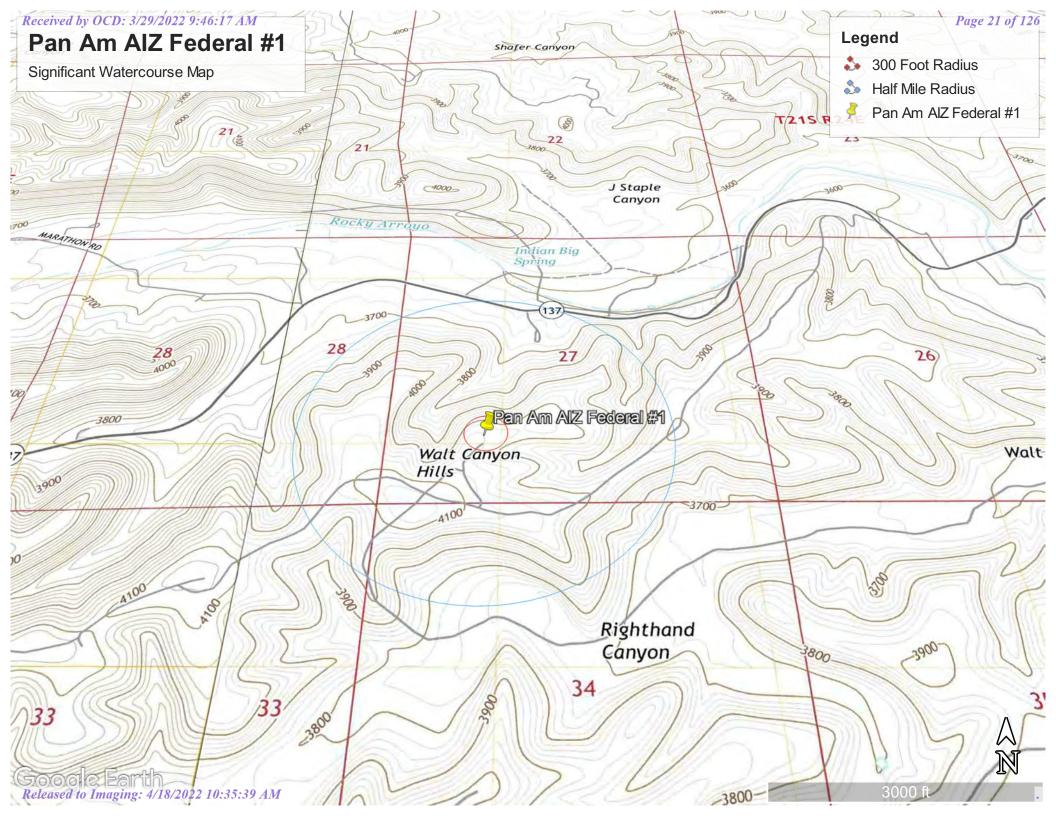
Active



SiteBoundaries



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





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



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.

Received by OCD: 3/29/2022 9:46:17,AM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 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 OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary -- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature

MAP PANELS

No Digital Data Available

Unmapped

point selected by the user and does not represent an authoritative property location.

The pin displayed on the map is an approximate

Digital Data Available

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.



2.000

Attachment B Photographic Log



Photo 1 – Area A



Photo 2 – Area A



Site Photograph EOG Pan Am AlZ 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-ofCustody 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

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: 2105797-001 **Collection Date:** 5/17/2021 11:55:00 AM

Client Sample ID: TP1 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Ba	atch 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 ORG	ANICS					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	ı ID
EPA METHOD 300.0: ANIONS					Analyst: VF	-
Chloride	ND	60	mg/Kg	20	5/20/2021 11:41:24 AM 60	151
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SE	3
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/20/2021 10:13:49 AM 60	136
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/20/2021 10:13:49 AM 60	136
Surr: DNOP	108	70-130	%Rec	1	5/20/2021 10:13:49 AM 60	136
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NS	SB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/20/2021 11:32:42 PM 60	129
Surr: BFB	98.8	70-130	%Rec	1	5/20/2021 11:32:42 PM 60	129
EPA METHOD 8021B: VOLATILES					Analyst: NS	SB
Benzene	ND	0.025	mg/Kg	1	5/20/2021 11:32:42 PM 60	129
Toluene	ND	0.049	mg/Kg	1	5/20/2021 11:32:42 PM 60	129
Ethylbenzene	ND	0.049	mg/Kg	1	5/20/2021 11:32:42 PM 60	129
Xylenes, Total	ND	0.098	mg/Kg	1	5/20/2021 11:32:42 PM 60	129
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	5/20/2021 11:32:42 PM 60	129

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 Quanitative 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

Lab Order: 2105797

Hall Environmental Analysis Laboratory, Inc.

Lab Order:

Date Reported: 5/21/2021

2105797

CLIENT: GHD

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

Batch ID
st: VP
M 60151
st: SB
M 60136
M 60136
M 60136
st: NSB
M 60129
M 60129
st: NSB
M 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 Quanitative 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 2 of 10

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 Qu	ial Units	DF	Date Analyzed Ba	atch 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 ORG	ANICS				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 Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	150	60	mg/Kg	20	5/20/2021 12:49:32 F	M 60151
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analy	st: SB
Diesel Range Organics (DRO)	380	8.1	mg/Kg	1	5/20/2021 12:00:42 F	M 60136
Motor Oil Range Organics (MRO)	720	40	mg/Kg	1	5/20/2021 12:00:42 F	M 60136
Surr: DNOP	120	70-130	%Rec	1	5/20/2021 12:00:42 F	M 60136
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/21/2021 1:31:00 AM	A 60129
Surr: BFB	97.6	70-130	%Rec	1	5/21/2021 1:31:00 AM	<i>l</i> 60129
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	5/21/2021 1:31:00 AM	A 60129
Toluene	ND	0.050	mg/Kg	1	5/21/2021 1:31:00 AM	M 60129
Ethylbenzene	ND	0.050	mg/Kg	1	5/21/2021 1:31:00 AM	<i>l</i> 60129
Xylenes, Total	ND	0.10	mg/Kg	1	5/21/2021 1:31:00 AM	A 60129
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	5/21/2021 1:31:00 AM	<i>l</i> 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 Quanitative 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

CLIENT:

Analytical Report

Lab Order: 2105797

Hall Environmental Analysis Laboratory, Inc.

Lab Order:

Date Reported: 5/21/2021

2105797

GHD Project: Pan Am AI2 Federal 1

Lab ID: 2105797-006 **Collection Date:** 5/17/2021 12:20:00 PM

Matrix: SOIL **Client Sample ID:** TP6

Cheff Sample 1D: 170	Matrix: SOIL								
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID		
EPA METHOD 300.0: ANIONS						Ana	ılyst: VP		
Chloride	ND	60		mg/Kg	20	5/20/2021 1:26:46	PM 60151		
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Ana	lyst: 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						Ana	lyst: 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						Ana	lyst: 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.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix

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

Page 4 of 10

Lab Order: 2105797

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/21/2021

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

Client Sample ID: TP7			: SC	OIL	
Result	RL Qu	al Units	DF	Date Analyzed B	atch ID
				Analyst	: VP
ND	60	mg/Kg	20	5/20/2021 1:39:10 PM	60151
IICS				Analyst	: SB
68	9.7	mg/Kg	1	5/20/2021 2:31:26 PM	60136
200	49	mg/Kg	1	5/20/2021 2:31:26 PM	60136
101	70-130	%Rec	1	5/20/2021 2:31:26 PM	60136
				Analyst	: NSB
ND	5.0	mg/Kg	1	5/21/2021 2:18:00 AM	60129
97.4	70-130	%Rec	1	5/21/2021 2:18:00 AM	60129
				Analyst	: NSB
ND	0.025	mg/Kg	1	5/21/2021 2:18:00 AM	60129
ND	0.050	mg/Kg	1	5/21/2021 2:18:00 AM	60129
ND	0.050	mg/Kg	1	5/21/2021 2:18:00 AM	60129
ND	0.099	mg/Kg	1	5/21/2021 2:18:00 AM	60129
108	70-130	%Rec	1	5/21/2021 2:18:00 AM	60129
	ND 81CS 68 200 101 ND 97.4 ND ND ND ND ND	ND 60 IICS 68 9.7 200 49 101 70-130 ND 5.0 97.4 70-130 ND 0.025 ND 0.050 ND 0.050 ND 0.099	Result RL Qual Units ND 60 mg/Kg IICS 88 9.7 mg/Kg 200 49 mg/Kg 101 70-130 %Rec ND 5.0 mg/Kg 97.4 70-130 %Rec ND 0.025 mg/Kg ND 0.050 mg/Kg ND 0.050 mg/Kg ND 0.050 mg/Kg ND 0.099 mg/Kg	Result RL Qual Units DF ND 60 mg/Kg 20 IICS 8 9.7 mg/Kg 1 200 49 mg/Kg 1 101 70-130 %Rec 1 ND 5.0 mg/Kg 1 97.4 70-130 %Rec 1 ND 0.025 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.099 mg/Kg 1	Analyst ND 60 mg/Kg 20 5/20/2021 1:39:10 PM Analyst 68 9.7 mg/Kg 1 5/20/2021 2:31:26 PM 200 49 mg/Kg 1 5/20/2021 2:31:26 PM 101 70-130 %Rec 1 5/20/2021 2:31:26 PM Analyst ND 5.0 mg/Kg 1 5/21/2021 2:18:00 AM 97.4 70-130 %Rec 1 5/21/2021 2:18:00 AM MD 0.025 mg/Kg 1 5/21/2021 2:18:00 AM ND 0.050 mg/Kg 1 5/21/2021 2:18:00 AM ND 0.050 mg/Kg 1 5/21/2021 2:18:00 AM ND 0.050 mg/Kg 1 5/21/2021 2:18:00 AM ND 0.099 mg/Kg 1 5/21/2021 2:18:00 AM

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 Quanitative 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 10

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 Quanitative 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 10

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 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 70 9.6 10.00 96.0 130 Sample ID: LCS-60136 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 60136 RunNo: 77529 Analysis Date: 5/20/2021 SeqNo: 2751642 Prep Date: 5/19/2021 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 48 10 0 95.1 68.9 50.00 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 SPK value SPK Ref Val %RPD **RPDLimit** Result **PQL** %REC HighLimit Qual Analyte LowLimit Surr: DNOP 5.0 5.000 99.1 130

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	e SPK Ref Val %REC LowLimi	t 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 Quanitative 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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OC 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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 990 1000 99 2 130

Sample ID: Ics-60139 TestCode: EPA Method 8015D: Gasoline Range SampType: LCS

Client ID: LCSS Batch ID: 60139 RunNo: 77537

Prep Date: Analysis Date: 5/20/2021 SeqNo: 2752225 5/19/2021 Units: %Rec

%REC Result **PQL** SPK value SPK Ref Val %RPD **RPDLimit** Analyte I owl imit HighLimit 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

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 99.4 70 130

Sample ID: Ics-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

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result **PQL** LowLimit Qual 5.0 n 89.8 Gasoline Range Organics (GRO) 22 25.00 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

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 20 61.3 26 24.49 106 114

Surr: BFB 4900 4897 101 70 130

TestCode: EPA Method 8015D: Gasoline Range Sample ID: 2105797-001amsd SampType: MSD

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 POL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 20 24.73 n 96.2 61.3 114 8.90 20 0

99.0 Surr: BFB 4900 4946 70 130 0

Qualifiers:

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

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

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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

 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 SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual 0.95 0.025 1.000 0 95.5 80 120 Benzene 80 Toluene 0.98 0.050 1.000 0 97.6 120 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 1 000 70 130 108 1 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 D	ate: 5/ 2	20/2021	S	SeqNo: 27	752295	Units: mg/K	g		
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 Quanitative 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, Inc.

1.1

WO#: **2105797**

0

21-May-21

Client: GHD

Surr: 4-Bromofluorobenzene

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

0.9775

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 SPK value SPK Ref Val %REC %RPD **RPDLimit** Result **PQL** LowLimit HighLimit Qual Analyte 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 0.049 0.9775 0 109 80 120 8.34 20 1.1 8.20 20 Xylenes, Total 3.2 0.098 2.933 0 109 80 120

109

70

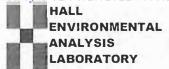
130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107
Website: chents.hallenvironmental.com

Client Name: GHD	Work Order Number:	2105	797		RcptNo	i 1
Received By: Juan Rojas	5/19/2021 7:28:00 AM			- warring		
Completed By: Cheyenne Cason	5/19/2021 7:47:27 AM			Charles .		
Reviewed By: JR 5/19/21						
Chain of Custody						
Is Chain of Custody complete?		Yes	\checkmark	No 🗆	Not Present	
2. How was the sample delivered?		Cour	<u>ier</u>			
Log In						
3. Was an attempt made to cool the samples?		Yes	V	No 🗌	NA 🗆	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes	✓	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes	V	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes	✓	No 🗌		
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes	V	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 brok	en?	Yes		No 🗸	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	✓	No 🗆	bottles checked for pH: (<2 c	or >12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes	V	No 🗌	Adjusted2	
13. Is it clear what analyses were requested?		Yes	V	No 🗌		LDA 5.19171
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	✓	No 🗌	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:	_ eM	ail 🗌	Phone Fax	☐ In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. Cooler Information						
Cooler No Temp °C Condition S	Seal Intact Seal No S	Seal D	ate	Signed By		

Chain-of-Custody Record	Turn-Around Time:	
Client: GAD	☐ Standard	HALL ENVIRONMENTAL ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address:	Pan Am AIZ Feder	4901 Hawkins NE - Albuquerque, NM 87109
324 W. Mul St Suit 108 Artsic Nova 20	12 : 1"	Tel. 505-345-3975 Fax 505-345-4107
Phone #: (SOS) 377 - 4218	11228315	Analysis Request
email or Fax#: B. L. H. L. A. GHD.ca.	Project Manager:	SO ₄ (i) (i) (ii) (ii) (iii)
QA/QC Package: Tom. Larson & GHD. com	Becky Haskell	PCB's PCB's PCB's SQ, SQ, SQ,
☐ Standard ☐ Level 4 (Full Validation)	Tan Larson	TMB's (802 / DRO / MF (082 PCB's (082 P
Accreditation: ☐ Az Compliance	Sampler: Zich Colmina	E / TMB SRO / DR 1504.1) 0 or 827(OA) (OA) (OA)
☐ NELAC ☐ Other	On Ice: ✓Yes □ No # of Coolers:	TBE / D(GRC S310 oo S310 oo NO3, A)
		S by 83 (VOA) (Coliforn
		ETEX / MTBE / TMB's (8021) (PH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHS by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) Total Coliform (Present/Absent) Allowide
Date Time Matrix Sample Name		EAL No. 17 Otal (C) F, A S 8260 (C) F, A S 826
1155 S TP1		
1 1200 1 TP2		1972
1705 TP3		CC3
120 TP4	C	24
1215 TP5		305
1220 TP6		C25 006
V 1225 V TP7 .	4	207
Date: Time: Relinquished by:	Received by: Via: Date	-2. (Calanta (Calanta)
Date: Time: Relinquished by:	Received by: Via; Date	along with others listed above
718101 1900 (CM) 1 = =================================	2 de la constitución	1/21 7178 Direct Will to ECG Chase Settle
. 11 0 14 17 0000		erves 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

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,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

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: 2106313-001 **Collection Date:** 6/3/2021 1:45:00 PM

Client Sample ID: BH-1 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	Satch ID
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	6/10/2021 8:04:16 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: 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					Analys	t: 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					Analys	t: 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	Ba	tch ID
EPA METHOD 300.0: ANIONS						An	alyst:	VP
Chloride	ND	60		mg/Kg	20	6/10/2021 8:16:41	PM	60561
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					An	alyst:	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						An	alyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2021 3:05:25 A	λM	60456
Surr: BFB	103	70-130		%Rec	1	6/8/2021 3:05:25 A	λM	60456
EPA METHOD 8021B: VOLATILES						An	alyst:	NSB
Benzene	ND	0.025		mg/Kg	1	6/8/2021 3:05:25 A	ΑM	60456
Toluene	ND	0.050		mg/Kg	1	6/8/2021 3:05:25 A	λM	60456
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2021 3:05:25 A	λM	60456
Xylenes, Total	ND	0.099		mg/Kg	1	6/8/2021 3:05:25 A	ΑM	60456
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/8/2021 3:05:25 A	MΑ	60456

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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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: 2106313-003 **Collection Date:** 6/3/2021 1:55:00 PM

Client Sample ID: BH-3 Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 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 6/12/2021 4:53:51 AM 60457 Motor Oil Range Organics (MRO) 170 44 6/12/2021 4:53:51 AM mg/Kg 1 60457 Surr: DNOP 104 70-130 %Rec 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 6/8/2021 3:29:10 AM mg/Kg 1 60456 Toluene ND 0.050 mg/Kg 1 6/8/2021 3:29:10 AM 60456 Ethylbenzene ND 60456 0.050 mg/Kg 1 6/8/2021 3:29:10 AM Xylenes, Total ND 0.099 mg/Kg 6/8/2021 3:29:10 AM 60456 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ID Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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CLIENT:

Analytical Report

Lab Order: 2106313 Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 2106313

GHD Project: Pan Am AI2 Federal 1

Lab ID: 2106313-004 **Collection Date:** 6/3/2021 2:00:00 PM

Matrix: SOIL Client Sample ID: BH-4

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed Ba	tch 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 ORG	ANICS				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 B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	59	mg/Kg	20	6/10/2021 9:18:44 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: 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					Analys	t: 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					Analys	t: 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.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Page 3 of 11

CLIENT:

Analytical Report

Lab Order: 2106313

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 2106313

GHD Project: Pan Am AI2 Federal 1

Lab ID: **Collection Date:** 6/3/2021 2:15:00 PM 2106313-006

BH-6 Matrix: SOIL **Client Sample ID:**

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 6/10/2021 9:31:09 PM 60 mg/Kg 60561 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 6/8/2021 5:29:36 PM 25 8.8 mg/Kg 60457 60457 Motor Oil Range Organics (MRO) ND 44 6/8/2021 5:29:36 PM mg/Kg 1 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 6/8/2021 4:40:36 AM mg/Kg 1 60456 Toluene ND 0.049 mg/Kg 1 6/8/2021 4:40:36 AM 60456 Ethylbenzene ND 60456 0.049 mg/Kg 1 6/8/2021 4:40:36 AM Xylenes, Total ND 0.098 mg/Kg 6/8/2021 4:40:36 AM 60456 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 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.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- \mathbf{E} Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 4 of 11

CLIENT:

Analytical Report

Lab Order: 2106313 Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 2106313

GHD Project: Pan Am AI2 Federal 1

Lab ID: 2106313-007 **Collection Date:** 6/3/2021 2:20:00 PM

Matrix: SOIL **Client Sample ID:** BH-7

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	6/10/2021 9:43:34 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: 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					Analys	t: 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					Analys	t: 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						Analy	st: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 9:56:00 PM	1 60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analy	st: 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	1 60457
Surr: DNOP	134	70-130	S	%Rec	1	6/11/2021 5:12:16 PM	1 60457
EPA METHOD 8015D: GASOLINE RANGE						Analy	st: 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						Analy	st: 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.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Page 5 of 11

Lab Order: 2106313

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/16/2021

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

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 6/10/2021 10:08:24 PM 60561 60 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 61 9.5 mg/Kg 6/12/2021 5:18:19 AM 60457 Motor Oil Range Organics (MRO) 120 47 6/12/2021 5:18:19 AM mg/Kg 1 60457 Surr: DNOP 104 70-130 %Rec 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 6/8/2021 9:40:20 AM mg/Kg 1 60456 Toluene ND 0.049 mg/Kg 1 6/8/2021 9:40:20 AM 60456 Ethylbenzene ND 60456 0.049 mg/Kg 1 6/8/2021 9:40:20 AM Xylenes, Total ND 0.098 mg/Kg 6/8/2021 9:40:20 AM 60456 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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Lab Order: 2106313

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/16/2021

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 6/10/2021 10:20:50 PM 60561 20 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 67 9.0 mg/Kg 6/11/2021 4:48:14 PM 60457 1 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 6/11/2021 4:48:14 PM 60457 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 6/8/2021 10:03:57 AM 60456 ND 4.9 mg/Kg 1 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 6/8/2021 10:03:57 AM 60456 mg/Kg 1 Toluene ND 0.049 6/8/2021 10:03:57 AM 60456 mg/Kg 1 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 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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, 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 Quanitative 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, Inc.

2106313 16-Jun-21

WO#:

Client: GHD

Surr: DNOP

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

5.1

Prep Date: 6/7/2021 Analysis Date: 6/8/2021 SeqNo: 2768687 Units: mg/Kg

5.000

SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 10 50.00 95.3 68.9 141

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 Quanitative 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, Inc.

2106313 16-Jun-21

WO#:

Client: GHD

Surr: BFB

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: Ics-60456 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60456 RunNo: 78893

1200

Prep Date: 6/5/2021 Analysis Date: 6/7/2021 SeqNo: 2767218 Units: mg/Kg

1000

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

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 Quanitative 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, Inc.

1.1

WO#: **2106313**

16-Jun-21

Client: GHD

Surr: 4-Bromofluorobenzene

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

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 104 70 130

1.000

Sample ID: LCS-60456	Samp1	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 60	456	F	RunNo: 7	8893				
Prep Date: 6/5/2021	Analysis [Date: 6/	7/2021	8	SeqNo: 2	767266	Units: mg/k	ίg		
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			
Xvlenes Total	3.0	0.10	3 000	0	98.8	80	120			

70

106

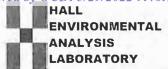
130

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 Quanitative Limit

- 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 N	Number: 21	06313		RcptNo: 1	
Received By: Juan Roja	s 6/5/2021 8:30:0	00 AM		Juniay.		
				Linus & Or		
Completed By: Juan Roja Reviewed By: Or / Or	s 6/5/2021 11:04	. 14 AW		,,,		
Chain of Custody					77	
1. Is Chain of Custody compl	ete?	Ye	s 🗸	No 🗌	Not Present	
2. How was the sample delive	ered?	Co	<u>urier</u>			
Log In						
3. Was an attempt made to c	ool the samples?	Ye	s 🗸	No 🗌	NA 🔲	
4. Were all samples received	at a temperature of >0° C to 6.0°C	; Ye	s V	No 🗌	NA 🗆	
5. Sample(s) in proper contai	ner(s)?	Ye	s 🗸	No 🗆		
6. Sufficient sample volume for	or indicated test(s)?	Ye	s 🗸	No 🗌		
7. Are samples (except VOA a	and ONG) properly preserved?	Ye	s 🗸	No 🗆		
8. Was preservative added to		Ye	s 🗆	No 🔽	NA 🗆	
9. Received at least 1 vial with	n headspace <1/4" for AQ VOA?	Ye	s \square	No 🗆	NA 🗹	
10. Were any sample containe	ers received broken?	Ye	s \square	No 🗹	# of preserved	
11. Does paperwork match bot (Note discrepancies on cha		Ye	s 🗸	No 🗌		2 unless noted)
12. Are matrices correctly iden	tified on Chain of Custody?	Ye	s 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses we	ere requested?	Ye	s 🗸	No 🗌	/ 41	2 10-121
14. Were all holding times able (If no, notify customer for a		Ye	s 🔽	No 🗌	Checked by:	16/5/21
Special Handling (if app	licable)					
15. Was client notified of all di	screpancies with this order?	Ye	es 🗆	No 🗌	NA 🗹	
Person Notified:		Date:				
By Whom:		Via: ☐ e	Mail	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-C	ustody Record	Turn-Around	Time:									NIX	/TF	10	BIB	45		
Client	GA	CI		Standard	□ Rush	500													NT/	RY
				Project Name	e:	0									men				. •	
Mailin	g Address	:		Pan A	ATZ	60 ml #1		49	01 F								лн М 87	109		
3241)	MALSA	Q.L	08 Ats: DM 8820	Project #:	4/4/	7 C	1			05-34							-4107			
Phone			7-4218	112	28315							-	or Residence	-	Req					
email	or Fax#·	7.1.	H. J. 11 (C/41)	Project Mana	iger: Becky	Hustrall	E	(0)					SO4			ent)	300			
QA/QC	Package:	Charles Torn La	Settle Geographic Circles. Ce rstr & GFD: Coin Level 4 (Full Validation)		Tox	Larson	(8021)	TPH:8015D(GRO / DRO / MRO)	PCB's		8270SIMS		PO ₄ , §			Total Coliform (Present/Absent)	W			
□ Sta	indard		☐ Level 4 (Full Validation)		- lan 2	-C-V3C11	l w	RO	2 P(708		2, P			ent/	3			11
Accre		☐ Az C	ompliance	Sampler: On Ice:	DYes Col	who No	TMB	0 / D	8081 Pesticides/8082	EDB (Method 504.1)			NO ₂ ,		7	rese	12			
-	D (Type)	□ Othe		# of Coolers:		LI NO	BE/	GR	des,	d 50	10 0	tals	NO ₃ ,		0 /	m (F	2			
						9-0.1=0.6-(°C)	MTBE	15D(stic	etho	PAHs by 8310 or	RCRA 8 Metals	Br, N	8260 (VOA)	8270 (Semi-VOA)	lifor	0			
				Cantainan	Dunanustina	1.8-0.1=1-7 HEAL No.	×	.80	1 Pe	<u>S</u>	ls b	₹8 8	F. B	5	S) (S	Ö	Sovie			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2166313	BTEX	T	808		PAH	RCF	C, F	826	827	Tota	7			
7.030	1345	S	BH-I			- 100 1	X	K									4			
1	1350	1	BH-2			-005	1	1												
	1355		13H-3			-003														
	1400		BH-4			-004														
	1405		131-1-5			-005											1			
	1415		BH-6			-006														
	1420		BH-7			-007														
	1430		BH-8			-008														
	1445		SW-1			-009														
V	1450	4	SW-2			-U10	T	V									4			
	-	D 11		D) //	Deld Time	_													
Date:	Time:	Relinquish	ned by:	Received by:	Via:	Pate Time	Ren	пагк	s. P	ers	و. ر	ine	1.	Zu	لما د	Cu	ساس	(¿) [-	AU.	csin
Date:	Time:	Relinquis	ned by:	Received by:	Via:	Date Time			Call	H	لما	11	61	thei	15	115/	ec)	alg	oic	cein
64/2	1 1900	alu		101	munder	6/5/21 8:30	1)	1	+	i	3!	(to	50	1	1	\c<-	S.	ttle



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,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

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						Analys	st: VP
Chloride	ND	61		mg/Kg	20	6/10/2021 5:47:43 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analys	st: SB
Diesel Range Organics (DRO)	240	9.1		mg/Kg	1	6/11/2021 10:49:49 P	M 60473
Motor Oil Range Organics (MRO)	400	46		mg/Kg	1	6/11/2021 10:49:49 P	M 60473
Surr: DNOP	147	70-130	S	%Rec	1	6/11/2021 10:49:49 P	M 60473
EPA METHOD 8015D: GASOLINE RANGE						Analys	st: 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						Analys	st: 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 Q	ual Units	DF	Date Analyzed I	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: VP
Chloride	ND	60	mg/Kg	20	6/10/2021 6:49:47 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: SB
Diesel Range Organics (DRO)	230	9.8	mg/Kg	1	6/11/2021 11:37:40 PI	M 60473
Motor Oil Range Organics (MRO)	410	49	mg/Kg	1	6/11/2021 11:37:40 PI	M 60473
Surr: DNOP	126	70-130	%Rec	1	6/11/2021 11:37:40 PI	M 60473
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: 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					Analys	t: 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.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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Lab Order: **2106312**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/16/2021

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

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 6/10/2021 7:02:12 PM 60561 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 6/12/2021 12:25:36 AM 60473 82 9.0 mg/Kg Motor Oil Range Organics (MRO) 140 6/12/2021 12:25:36 AM 60473 45 mg/Kg 1 Surr: DNOP 95.8 70-130 %Rec 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 6/9/2021 1:16:26 PM mg/Kg 1 60472 Toluene ND 0.050 mg/Kg 1 6/9/2021 1:16:26 PM 60472 Ethylbenzene ND 0.050 60472 mg/Kg 1 6/9/2021 1:16:26 PM Xylenes, Total ND 0.10 mg/Kg 6/9/2021 1:16:26 PM 60472 Surr: 4-Bromofluorobenzene 107 70-130 %Rec 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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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 Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	6/10/2021 7:14:37 PM	60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: 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					Analys	t: 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					Analys	t: 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					Analy	st: VP
Chloride	ND	60	mg/Kg	20	6/10/2021 7:27:02 PM	A 60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analy	st: SB
Diesel Range Organics (DRO)	87	9.0	mg/Kg	1	6/12/2021 1:38:10 AM	A 60473
Motor Oil Range Organics (MRO)	140	45	mg/Kg	1	6/12/2021 1:38:10 AM	A 60473
Surr: DNOP	105	70-130	%Rec	1	6/12/2021 1:38:10 AM	A 60473
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: 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					Analy	st: 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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Lab Order: 2106312

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/16/2021

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

Result **RL Oual Units DF** Date Analyzed **Batch ID Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 6/10/2021 7:39:26 PM 60561 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 6/12/2021 6:06:53 AM 83 17 mg/Kg 2 60473 Motor Oil Range Organics (MRO) 230 86 2 6/12/2021 6:06:53 AM 60473 mg/Kg 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 6/9/2021 3:14:46 PM 60472 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 6/9/2021 3:14:46 PM 60472 Ethylbenzene ND 60472 0.048 mg/Kg 1 6/9/2021 3:14:46 PM Xylenes, Total ND 0.095 mg/Kg 6/9/2021 3:14:46 PM 60472 Surr: 4-Bromofluorobenzene 107 70-130 %Rec 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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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

Cheff Sample ID. 5 W-4				Manix	. 50	/IL	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Anal	yst: VP
Chloride	ND	60		mg/Kg	20	6/10/2021 7:51:51 P	M 60561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Anal	yst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/12/2021 3:16:13 A	M 60473
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/12/2021 3:16:13 A	M 60473
Surr: DNOP	141	70-130	S	%Rec	1	6/12/2021 3:16:13 A	M 60473
EPA METHOD 8015D: GASOLINE RANGE						Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2021 3:38:24 PM	1 60472
Surr: BFB	109	70-130		%Rec	1	6/9/2021 3:38:24 PM	1 60472
EPA METHOD 8021B: VOLATILES						Anal	yst: NSB
Benzene	ND	0.024		mg/Kg	1	6/9/2021 3:38:24 PM	1 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 PN	1 60472
Xylenes, Total	ND	0.097		mg/Kg	1	6/9/2021 3:38:24 PM	1 60472
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/9/2021 3:38:24 PM	1 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 Quanitative 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, 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 Quanitative 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, 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

Units: mg/Kg Prep Date: 6/7/2021 Analysis Date: 6/10/2021 SeqNo: 2771932

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result 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

SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 61 10 50.00 122 68.9 141 Surr: DNOP 6.4 5.000 128 70 130

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2106312**

16-Jun-21

Client: GHD

Surr: BFB

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: Ics-60472 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60472 RunNo: 78935

1200

Prep Date: 6/7/2021 Analysis Date: 6/9/2021 SeqNo: 2770406 Units: mg/Kg

1000

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

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 Quanitative 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, 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

1 10p Bate: 0/1/2021	7 thaiyolo L	outo. 0 ,	3/2021	Ocq110. 2770430			Office. Hig/IV			
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 Quanitative 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	: 210	3312			RcptNo: 1
Received By:	Juan Rojas	5	6/5/2021	8:30:00 AM			Juans	2	
Completed By:	Juan Rojas		6/5/2021	10:53:05 AM			land	9	
Reviewed By:	(m) 06/05		5,5,252,	10100100 7 110			2		
Chain of Cus	<u>tody</u>								
1. Is Chain of Co	ustody comple	ete?			Yes	V	No [Not Present
2. How was the	sample delive	ered?			Cou	rier			
Log In									
3. Was an attern	npt made to co	ool the sample	s?		Yes	V	No [NA 🗌
4. Were all samp	oles received	at a temperatu	ure of >0° C to	6.0°C	Yes	V	No [NA 🗆
5. Sample(s) in [proper contair	ner(s)?			Yes	V	No [
6. Sufficient sam	ple volume fo	or indicated tes	st(s)?		Yes	V	No [
7. Are samples (d?	Yes	V	No [
8. Was preserva					Yes		No S	/	NA 🗌
9. Received at le	ast 1 vial with	n headspace <	1/4" for AQ V	DA?	Yes		No [NA 🗹
10. Were any sar	nple containe	rs received bro	oken?		Yes		No [V	# of preserved
11. Does paperwo					Yes	V	No [bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices of	correctly ident	tified on Chain	of Custody?		Yes	V	No [Adjusted?
13. Is it clear wha					Yes	V	No L		Checked by: 72 6/5-12
Were all holdi(If no, notify c	-				Yes	V	No L	-	Checked by: 3/2 6/3/2
Special Handl	ing (if app	licable)						V	
15. Was client no	otified of all dis	screpancies w	ith this order?		Yes		No		NA 🗹
Person	Notified:			Date:				-	
By Who	om:			Via:	eM	ail 🗌	Phone	Fax	☐ In Person
Regard	ing:								
Client I	nstructions:								
16. Additional re	marks:								
17. Cooler Info	rmation								
Cooler No		Condition	Seal Intact	Seal No	Seal [ate	Signed B	Ву	
1	8.0	Good							

	Chain	-of-C	ustody Record	Turn-Around	Time:	•							_							
Client:	GH	D		Standard	d □ Rush	5- (0)												1EN RA		
				Project Nam		1			:						men				101	
Mailing	Address	3:		R. A.	ATT 1	Deval #1		49	01 F								он IM 87′	109		
CJYS	N. S	1.2 12	LIOS ALSIC NIMBERIO	Project #:	<u> </u>	LIXEVEL				05-34					-		-4107			
Phone			7-4218	1	778315	-	Analysis Request							21.1						
email o	r Fax#:	Buk.	Huskell QGHD con Settle @ agressioners. com uson QGHD. con Level 4 (Full Validation)	Project Mana	ager:	Haskell	(8021)	/ MRO)	PCB's		MS		PO4, SO4			Absent)	300			
					10hr	Leavious	TMB's	8	2 P(8270SIMS		2, P(ent/	- 8			
Accred	itation:	☐ Az Co	ompliance	Sampler: On Ice:	Yes	□ No	Σ		808	1,1			NO ₂ ,		7	res	N.W			
_	(Type)	□ Othe			# of Coolers: 2			GRC	des	d 50	10 or	tals	NO ₃ ,		0	E E	1			
						9-0.1=0.8 (°C)	MTBE	15D(stici	etho	y 83	8 Metals	Br, N	OA)	emi-	l je	ري			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1.6-0.1=1.7 HEAL No.	BTEX/	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8	CI, F, B	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	dough			
020421	1100	S	BH-9	Ù.		-001	N	X									20			
	1115	1	BH-10			-062	1	1									1			
	1120		134-11			-003														
	1130		13A-12			-0601											П			10
	1140		RA-13			-005														
	1150		560-3			-006											П			
1	1155	4	SD-4			-007	V	V									4			
																		+	-	
-																	-	-	-	
-																		-	-	+
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Date:	Time:	Relinquish Relinquish	Con no / Il	Received by:	Via:	Date Time Date Time Time	Rer	<u>I</u> nark	s: ۲	lon	ن ا ا ا	. e	المنا	ch	Zúi cvs	h. 6	com.	no (6-	chli). wh
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

July 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

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: 2106B21-001 **Collection Date:** 6/18/2021 10:00:00 AM

Client Sample ID: BH-2A Matrix: SOIL

Analyses	Result	RL (Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	:: ЈМТ
Chloride	ND	60	mg/Kg	20	6/27/2021 10:42:12 PM	60954
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	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					Analys	:: 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					Analys	:: 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 E	Batch ID
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	6/29/2021 12:26:05 PM	И 60959
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: 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					Analys	t: 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					Analys	t: 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 Quanitative 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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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

Cheff Sample ID: Dif-4A			Matrix	. sc	/IL	
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Anal	yst: JMT
Chloride	ND	60	mg/Kg	20	6/29/2021 12:38:29	PM 60959
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Anal	yst: BRM
Diesel Range Organics (DRO)	41	9.5	mg/Kg	1	6/27/2021 3:35:31 A	M 60900
Motor Oil Range Organics (MRO)	53	47	mg/Kg	1	6/27/2021 3:35:31 A	M 60900
Surr: DNOP	75.8	70-130	%Rec	1	6/27/2021 3:35:31 A	M 60900
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/29/2021 2:57:00 P	PM 60884
Surr: BFB	93.2	70-130	%Rec	1	6/29/2021 2:57:00 P	PM 60884
EPA METHOD 8021B: VOLATILES					Anal	yst: mb
Benzene	ND	0.024	mg/Kg	1	6/29/2021 2:57:00 P	PM 60884
Toluene	ND	0.049	mg/Kg	1	6/29/2021 2:57:00 P	M 60884
Ethylbenzene	ND	0.049	mg/Kg	1	6/29/2021 2:57:00 P	PM 60884
Xylenes, Total	ND	0.098	mg/Kg	1	6/29/2021 2:57:00 P	PM 60884
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	6/29/2021 2:57:00 P	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.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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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: 2106B21-004 **Collection Date:** 6/18/2021 10:15:00 AM

Client Sample ID: BH-8A Matrix: SOIL

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analysi	: ЈМТ
Chloride	ND	60	mg/Kg	20	6/29/2021 12:50:53 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				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					Analy	st: JMT
Chloride	ND	61	mg/Kg	20	6/29/2021 1:03:18 PM	1 60959
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analy	st: BRM
Diesel Range Organics (DRO)	52	9.9	mg/Kg	1	6/27/2021 5:12:33 AM	1 60900
Motor Oil Range Organics (MRO)	98	50	mg/Kg	1	6/27/2021 5:12:33 AN	1 60900
Surr: DNOP	79.8	70-130	%Rec	1	6/27/2021 5:12:33 AM	1 60900
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/29/2021 3:37:00 PM	1 60884
Surr: BFB	92.4	70-130	%Rec	1	6/29/2021 3:37:00 PM	1 60884
EPA METHOD 8021B: VOLATILES					Analy	st: mb
Benzene	ND	0.025	mg/Kg	1	6/29/2021 3:37:00 PM	1 60884
Toluene	ND	0.049	mg/Kg	1	6/29/2021 3:37:00 PM	1 60884
Ethylbenzene	ND	0.049	mg/Kg	1	6/29/2021 3:37:00 PM	1 60884
Xylenes, Total	ND	0.099	mg/Kg	1	6/29/2021 3:37:00 PM	1 60884
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	6/29/2021 3:37:00 PM	1 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 Quanitative 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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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: 2106B21-006 **Collection Date:** 6/18/2021 10:30:00 AM

Client Sample ID: BH-10A Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Analyses** Batch ID **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 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 6/27/2021 6:01:09 AM 60900 Motor Oil Range Organics (MRO) ND 6/27/2021 6:01:09 AM 60900 49 mg/Kg 1 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 6/29/2021 3:57:00 PM mg/Kg 1 60884 Toluene ND 0.049 mg/Kg 1 6/29/2021 3:57:00 PM 60884 Ethylbenzene ND 60884 0.049 mg/Kg 1 6/29/2021 3:57:00 PM Xylenes, Total ND 0.099 mg/Kg 6/29/2021 3:57:00 PM 60884 Surr: 4-Bromofluorobenzene 89.2 70-130 %Rec 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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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: 2106B21-007 **Collection Date:** 6/18/2021 10:35:00 AM

Client Sample ID: BH-11A Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	:: ЈМТ
Chloride	ND	60	mg/Kg	20	6/29/2021 1:28:07 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analys	: 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					Analys	:: 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					Analys	:: 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 B	atch ID	
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ	
Chloride	ND	60	mg/Kg	20	6/29/2021 1:40:31 PM	60959	
EPA METHOD 8015M/D: DIESEL RANGE ORG				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 Quanitative 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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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

Result **RL Oual Units DF** Date Analyzed **Analyses** Batch ID **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 6/29/2021 1:52:56 PM 60959 20 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.8 mg/Kg 6/27/2021 7:38:12 AM 60900 mg/Kg Motor Oil Range Organics (MRO) ND 49 6/27/2021 7:38:12 AM 60900 1 Surr: DNOP 53.8 70-130 %Rec 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 6/29/2021 5:56:00 PM mg/Kg 1 60884 Toluene ND 0.049 mg/Kg 1 6/29/2021 5:56:00 PM 60884 Ethylbenzene ND 60884 0.049 mg/Kg 1 6/29/2021 5:56:00 PM Xylenes, Total ND 0.099 mg/Kg 6/29/2021 5:56:00 PM 60884 Surr: 4-Bromofluorobenzene 90.2 70-130 %Rec 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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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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: 2106B21-010 **Collection Date:** 6/18/2021 11:10:00 AM

Client Sample ID: SW-2A Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 2:05:20 PM	60959
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analys	t: 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						Analys	t: 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						Analys	t: 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						Anal	yst: JMT
Chloride	ND	60		mg/Kg	20	6/29/2021 2:17:44 P	M 60959
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Anal	yst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/27/2021 8:26:49 A	M 60900
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/27/2021 8:26:49 A	M 60900
Surr: DNOP	56.1	70-130	S	%Rec	1	6/27/2021 8:26:49 A	M 60900
EPA METHOD 8015D: GASOLINE RANGE						Anal	yst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 6:35:00 P	M 60884
Surr: BFB	92.5	70-130		%Rec	1	6/29/2021 6:35:00 P	M 60884
EPA METHOD 8021B: VOLATILES						Anal	yst: mb
Benzene	ND	0.025		mg/Kg	1	6/29/2021 6:35:00 P	M 60884
Toluene	ND	0.049		mg/Kg	1	6/29/2021 6:35:00 P	M 60884
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2021 6:35:00 P	M 60884
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2021 6:35:00 P	M 60884
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	6/29/2021 6:35:00 P	M 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 Quanitative 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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Lab Order: 2106B21

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/1/2021

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.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 8 of 13

Hall Environmental Analysis Laboratory, Inc.

2106B21 01-Jul-21

WO#:

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: Ics 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 Quanitative 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, 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: Analysis Date: 6/24/2021 SeqNo: 2787407 6/23/2021 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 4.3 5.000 856 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

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: DNOP 8.7 10.00 86.7

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 POL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDI imit Qual

Surr: DNOP 4.2 5.000 83.2 70

Sample ID: MB-60876 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 60876 RunNo: 79325

Prep Date: Analysis Date: 6/25/2021 6/23/2021 SeqNo: 2789218 Units: %Rec

%RPD Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual

Surr: DNOP 9.3 10.00 926 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 70 130 98 4

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

SPK value SPK Ref Val %REC %RPD Analyte Result PQL LowLimit HighLimit **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

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 13

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

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 66 47.00 39.8 15 Diesel Range Organics (DRO) 9.3 46.69 184

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 n 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 Quanitative 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, Inc.

2106B21 01-Jul-21

WO#:

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: mq/Kq

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: Ics-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

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 25 101 5.0 25.00 n 78.6 131 Gasoline Range Organics (GRO) Surr: BFB 1000 1000 100 70 130

Sample ID: Ics-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

PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result SPK value LowLimit Qual Gasoline Range Organics (GRO) 25 4.9 n 100 61.3 24.68 114

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) 61.3 20 25 4.9 24.63 0 102 114 1.46 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 Quanitative 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, Inc.

t: 2106B21 01-Jul-21

WO#:

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 Analysis Date: 6/29/2021 Prep Date: 6/23/2021 SeqNo: 2793305 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.89 1.000 89.2 70 130

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

Sample ID: Ics-60884	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	n ID: 60 8	884	RunNo: 79458								
Prep Date: 6/23/2021	Analysis D)ate: 6/ 2	29/2021	8	SeqNo: 2	793307	Units: mg/K	(g				
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					

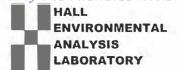
Sample ID: Ics-60919 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 60919 RunNo: 79458 Prep Date: 6/24/2021 Analysis Date: 6/29/2021 SeqNo: 2793308 Units: %Rec %REC PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: 4-Bromofluorobenzene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

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: 2106B21 RcptNo: 1 Chenl Received By: 6/22/2021 7:30:00 AM Juan Rojas Completed By: Cheyenne Cason 6/22/2021 8:08:04 AM Reviewed By: Jn 6/22/21 Chain of Custody Yes 🗸 No 🗌 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In NA 🗌 3. Was an attempt made to cool the samples? Yes V No 🗌 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 Yes 🗸 5. Sample(s) in proper container(s)? No 🗌 Yes 🗸 6. Sufficient sample volume for indicated test(s)? No 🗌 7. Are samples (except VOA and ONG) properly preserved? ~ No V NA 🗌 8. Was preservative added to bottles? Yes No 🗌 NA V 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗹 10. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: Yes 🗸 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 ~ No 🗌 13. Is it clear what analyses were requested? Checked by: T.C. 6.21-21 Yes 🗸 No 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes NA 🗸 No 🗆 15. Was client notified of all discrepancies with this order? 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 0.4 Good 2 1.2 Good

Client:	GHD Address		08, Artesia NM 88210	Standard Project Nam	l □ Rush e:	15-de, [2 Federal #1	HALL ENVIRONMENTA ANALYSIS LABORATOF www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107												
Phone	#:	(505)37	7-4218	11	22.8315							A	naly	sis	Req	uest			
email c	r Fax#:	Becky. H	laskell@ghd.com	Project Mana	ager:		S SO ₄ SO ₄												
QA/QC	Package: ndard		☐ Level 4 (Full Validation)	Becky Haske Tom Larson	ell		\$ (80274)	O / MR	PCB's		8270SIMS		PO ₄ ,			esq.V/L	(1) 3		
Accred			ompliance r	Sampler: Zach Comino On Ice: X Yes □ No # of Coolors: 3			/ TMB's	ROTOF	Pesticides/8082	00	5	S	3, NO ₂ ,		OA)	Total Coliform (Present/Absent)	ME		
	(Type)			# of Coolers: Cooler Temp		6-0.2-01	RIEX / MTBE	15D(G	esticide	hod	y 8310	RCRA 8 Metals	CI, F, Br, NO ₃ ,	(AO/	8270 (Semi-VOA)	oliform	owich		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1.4-0.7=1.2 HEAL NO. 2106B21	RTEX/	TPH:8015D(GROTDROTMRS)	8081 P	EDB (Method	PAHs by 8	RCRA	CI, F, E	8260 (VOA)	8270 (5	Total C	Ch 0		
CLIPZI	1000	S	BH-24			601	X	×									X		
1	1005		BH-3/4			2002	1	1									1		
	1010		13H-4A			003													
	1015		BH-84			004													
	1010		13H-9A			005													
	1030		BH-10A			CO6													
	1035		DH-11A			007											1		
	1040		13H-13A			008													
	1100		SW-iA			009													
	ino		SW-2A			010													
4	1115	lo	SW-3A			011	V	¥									9		
Date:	Time:	Relinquisi Relinquis	Lanjus Skl-	Received by:	Via: Via:	Date Time U 21 800 Date Time 6 72 71 31	Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along v Becky Haskell listed above. Direct Bill to EOG Chase Settle												



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

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

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,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **2107466**Date Reported: **7/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107466

Project: Pan Am AIZ Federal 1

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 ORG	ANICS				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 Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	7/13/2021 1:55:54 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: SB
Diesel Range Organics (DRO)	18	8.5	mg/Kg	1	7/13/2021 11:29:42 AM	1 61233
Motor Oil Range Organics (MRO)	44	42	mg/Kg	1	7/13/2021 11:29:42 AM	1 61233
Surr: DNOP	118	70-130	%Rec	1	7/13/2021 11:29:42 AM	1 61233
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: 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					Analys	t: 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 Quanitative 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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Lab Order: 2107466

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/15/2021

CLIENT: GHD Midland Lab Order: 2107466

Project: Pan Am AIZ Federal 1

Lab ID: 2107466-003 **Collection Date:** 7/9/2021 9:00:00 AM

Client Sample ID: BH-8B Matrix: SOIL

Client Sample ID: BH-8B			Matrix	: SO	OIL	
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: VP
Chloride	ND	60	mg/Kg	20	7/13/2021 2:08:18 F	PM 61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	lyst: 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					Ana	lyst: 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					Ana	lyst: 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.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 2 of 8

Lab Order: **2107466**Date Reported: **7/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107466

Project: Pan Am AIZ Federal 1

Lab ID: 2107466-004 **Collection Date:** 7/9/2021 9:05:00 AM

Client Sample ID: BH-9B Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed Ba	atch 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 ORG	ANICS				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 Q	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	7/13/2021 3:35:09 PM	61263
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: 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					Analys	t: 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					Analys	t: 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 Quanitative 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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Lab Order: 2107466

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/15/2021

CLIENT: GHD Midland Lab Order: 2107466

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.

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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, 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 Quanitative 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, Inc.

WO#: 2107466

15-Jul-21

Client: GHD Midland

Project: Pan Am AIZ Federal 1

Sample ID: MB-61233	SampT	уре: МЕ	BLK	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 61 2	233	R	RunNo: 7	9756				
Prep Date: 7/12/2021	Analysis D	ate: 7/	13/2021	S	SeqNo: 2	806322	Units: mg/K	(g		
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 SPK value SPK Ref Val %REC %RPD Analyte PQL LowLimit HighLimit **RPDLimit** Qual

Diesel Range Organics (DRO) 46 10 50.00 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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

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

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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: Ics-61227 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61227 RunNo: 79725

1300

Prep Date: 7/10/2021 Analysis Date: 7/12/2021 SeqNo: 2804719 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 22 Gasoline Range Organics (GRO) 5.0 25.00 0 88.7 78.6 131

127

70

130

Qualifiers:

Surr: BFB

- 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 Quanitative 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, Inc.

1.2

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

 Delizerie
 ND
 0.023

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 1.1
 1.000
 114
 70
 130

1.000

Sample ID: Ics-61227	ID: Ics-61227 SampType: LCS TestCode: EPA Method 8021B: Volatiles					TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	n ID: 61 2	227	F	RunNo: 7 9	9725							
Prep Date: 7/10/2021	Analysis D)ate: 7/	12/2021	8	SeqNo: 2	804760	Units: mg/K	g					
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						

116

70

130

Qualifiers:

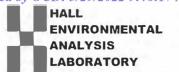
- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 NI: 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 Numb	per: 2107	7466		RcptNo:	1
Received By:	Cheyenne Cason	7/10/2021 8:00:00 /	AM		Chul		
Completed By:	Cheyenne Cason	7/10/2021 8:35:34 /	AM		Chul		
Reviewed By:	(m 07/10/2021				Comment		
Chain of Cus	stody						
1. Is Chain of C	Custody complete?		Yes	V	No 🗌	Not Present	
2. How was the	e sample delivered?		Cou	rier			
Log In							
S	mpt made to cool the sampl	es?	Yes	V	No 🗌	NA 🗌	
4. Were all sam	ples received at a temperal	ure of >0° C to 6.0°C	Yes	✓	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No 🗆		
6. Sufficient san	mple volume for indicated te	st(s)?	Yes	V	No 🗌		
7. Are samples	(except VOA and ONG) pro	perly preserved?	Yes	✓	No 🗌		
8. Was preserva	ative added to bottles?		Yes		No 🔽	NA 🗌	
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any sa	mple containers received be	roken?	Yes		No 🗸	# of preserved	
	ork match bottle labels? pancies on chain of custody		Yes	✓	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
12. Are matrices	correctly identified on Chair	of Custody?	Yes	✓	No 🗌	Adjusted?	
13. Is it clear wha	at analyses were requested	?	Yes	V	No 🗌		71, 1
	ling times able to be met? customer for authorization.)		Yes	✓	No 🗌	Checked by:	er 7/10/9
Special Hand	lling (if applicable)						
15. Was client n	otified of all discrepancies v	vith this order?	Yes		No 🗌	NA 🗹	
Person	n Notified:	Date					
By Wh	nom:	Via:	eM	ail 🗌	Phone Fax	☐ In Person	
Regard	ding:						
Client	Instructions:						
16. Additional re	emarks:						
17. Cooler Info	rmation						
Cooler No		Seal Intact Seal No	Seal D	ate	Signed By		
1	0.5 Good						

Page 1 of 1

Mailing 324 W. Phone	GHD Address Main St	Suite 10 (505)377		Project #:	N KRush e: AIZ Fa	3 Day		Te		A	www ins N	AL w.hal NE - 975	llenv Alb Fanaly	ironr uque	ment erqu 505-	tal.co e, Ni -345- uest	BOI om M 87 -4107	RA	TO		
QA/QC Star Accred	Package: ndard itation:		□ Level 4 (Full Validation)	Project Mana Becky Haske Tom Larson Sampler: On Ice: # of Coolers:	Zach Comino X Yes	□ No	TBE / TMB's (8021))(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	lod 504.1)	310 or 8270SIMS	etals	NO ₃ , NO ₂ , PO ₄ , SO ₄	2	i-VOA)	Total Coliform (Present/Absent)	te Method 300				
Date 7/9/21	850	Matrix	Sample Name BH - ZB	Cooler Temp Container Type and #	Preservative Type	5-020.5 HEAL No. 207466	X BTEX / MTBE	X TPH:8015D(GRO	8081 Pesti	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Colife	X Chloride				
	855 900 905		BH-3B BH-8B BH-9B			002 003 004	X X X	K									XXX	1		+	+
*	910	X	BH-13B	×	×	005	<i>y</i>	X									×			+	
Date: -1/9/21 Date: 1/9/21	Time: 1640 Time: 1900	Relinquish Hea Relinquish	orth Boyd	Received by: Received by:	Via: Via:	Date Time 7/9/2/ 1640 Date Time 7/10/10 08:00					ghd B	l.com ecky	n; Za ⁄ Has	ch.C skell	Comi liste	ino@ d ab		com:	urces Alon		

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

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



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,

Andy Freeman

Laboratory Manager

andy

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 ORG	SANICS				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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 6

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 ORG	GANICS					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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

Not In Range Page 2 of 6

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 Quanitative 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

Hall Environmental Analysis Laboratory, Inc.

2107A90 27-Jul-21

WO#:

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 Quanitative 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 4 of 6

Hall Environmental Analysis Laboratory, Inc.

2107A90 27-Jul-21

WO#:

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: Ics-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: Ics-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 Quanitative 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

Hall Environmental Analysis Laboratory, Inc.

2107A90 27-Jul-21

WO#:

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: Ics-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: Ics-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 LowLimit Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Benzene 0.93 0.025 1.000 0 92.6 80 120 0 0.93 0.050 1.000 93.0 80 120 Toluene 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 Quanitative 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 Sulgot Received By: 7/22/2021 7:30:00 AM Juan Rojas Completed By: Sean Livingston 7/22/2021 7:58:49 AM Reviewed By: JR7/22/21 Chain of Custody Not Present Yes 🗸 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No NA 🗌 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 Yes V 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes V No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes No V NA . 8. Was preservative added to bottles? No 🗌 NA 🗸 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗸 10. Were any sample containers received broken? # of preserved bottles checked for pH: Yes 🗸 No . 11. Does paperwork match bottle labels? (<2 of >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes V Yes 🗸 No 🗌 Checked by: SPA 7, 22,21 13 Is it clear what analyses were requested? No 🗌 14. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) Yes No [NA V 15. Was client notified of all discrepancies with this order? 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 5.5 Good 2 Good 1.4

Page I of I

C	Chain-of-Custody Record			Turn-Around Time:							16		E		/T =		NME		A I	
Client:	GHD			□ Standard	l ⊠′Rush	3 Day				_							BOR			•
				Project Name	e:						ww	w.hal	llenv	ironi	ment	tal co	nm			
Mailing	Address	3:		Pan A.	m AIZ	Federal # 1		49	01 H	lawk							M 8710	9		
324 W.	Main St	. Suite 10	8, Artesia NM 88210	Project #:)5-34							-4107			
Phone	#:	(505)377	7-4218	11	15855	5			L		i	Α	naly	sis	Req	uest				
email o	r Fax#:	Becky.H	askell@ghd.com	Project Manager:			=	0					SO4			nt)				
QA/QC	Package:			Becky Haskell			's (8021)	MR	PCB's		MS		8, Y			pse	0			
□ Stan	ndard		☐ Level 4 (Full Validation)	Tom Larson			3,8 (8) Q			8270SIMS		, PO ₄ ,			nt/A	300			
Accred	itation:		mpliance	Sampler: Zach Compan Heath Boyd			TMB	미	3082	504.1)			NO ₂ ,			ese	Joo			
□ NEL		□ Other		On Ice: X Yes			-	8	es/8	504	o C	<u>s</u>	3, 1		Q Q	P.	Metinod			
	(Type)			# of Coolers:	C Vicebudge CEN 5	6-0-1=5.5	IB.	D(G	ticid	hod	831	/leta	N	F	y-in	form	M			
					(madding Cr).	1.5.0.1=1.4	2	1015	Pes	Met	by	8	Ŗ,	(V0	(Ser	Coli	of			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2107-A90	BTEX / MTBE	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method	PAHs by 8310 or	RCRA 8 Metals	CI, F, Br, NO ₃ , NO ₂ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride			
	1015		BH-8	Jar 402 1	NA	001	×										Х			
	110'00	5	BH-9	ii ii		002	x	x									x			
	per.	ample	120+1/4 72 7/22/21																	
						1											7			
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Date:	Time:	Relinquish	ed by:	Received by:	Via:	Pate Time		L Rem	arks	: Ple	ase	ema	ail: C	hase	Se Se	ettle@	Deogres	sources	L s.com	;
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Dale:	Time:	Relinquish	ed by:	Received by:	/ Via:	Date Time						ecky ect E					ove. Settle			
12/12/	1900	(Cu	imj	124	10unier	7/22/4 7:30														

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
urface Waste Management Facility Operator

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	REQUEST FOR ALL ROYAL TO ACCELL SOLAD WASTE
	rator Name and Address: Resources, Inc. 104 South Fourth Street, Artesia, NM 88210
	inating Site: Am Pardue ALZ Federal I
	tion of Material (Street Address, City, State or ULSTR): on 27-T21S-R24E, Eddy County, NM
	ce and Description of Waste: impacted by produced water and oil
EOG Res	ources, Inc. authorizes Gandy Marley to complete the required testing and sign the Generator Waste Testing Certificate.
5. I, Tina certify th	I Volume 250 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS Huerta Fina Huerta, representative or authorized agent for EOG Resources; Inc do hereby at according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 by 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- not waste. Operator Use Only: Waste Acceptance Frequency. Monthly Weekly Per Load
char subp	RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by acteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, art D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check ppropriate items)
☐ MSD	S Information
	GENERATOR1 9,15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
have been	do hereby certify that ative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples a found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results resentative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of NMAC.
5. Tran	sporter:
CD Perm	itted Surface Waste Management Facility
Name an	d 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
lasta Ana	
asie Acce	ptance Status: DENIED (Must Be Maintained As Permanent Record)
RINT NA	ME: Shelles Denta TITLE: Manage DATE: 5-262
IGNATUR	E: Surface Waste Management Facility Authorized Agent

Page 105 of 126 Form C-138

Revised August 1, 2011

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

*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 4 th Street, Artesia NM 88210
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
regulatory determination, the above described waste is: (Check the appropriate classification) GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS BOG Resources, Inc. do hereby 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
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,
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: DATE:
SIGNATURE: TELEPHONE NO.: Surface Waste Management Facility Authorized Agent

			WEST MAIN ST	LEA LA	ND, LLC	PHONE (105) 236-	4257					
	-				43568		GE_O	Total State of the last of the	ER NO.	40			
	NO	ON-HAZARDOUS WAS		4 ADDRESS				PICK-UP DATE					
	G	3. COMPANY NAME E.O.G. Resources	-	105 South 4th			-	6/4/2021		ALL DISTRICT			
		PHONE NO.	763	CITY	STATE			. TNRCC I.D. NO					
	E	(575) 748-1471		Artesia	NM	8821 8. CON	TAINER	S 9. TOTAL	10. UNIT	11. TEXAS			
		7. NAME OR DESCRIPTION OF	WASTE SHIPPED):		No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #			
	N	Non-Regulated, Non Haza	rdous Waste			1	СМ						
	E	0.	(3)					- 1120					
- 1		C.		SMI ZKZEG									
-	R	WT: 3414D						B - Solte	S THE	S SERVE			
	1	12. COMMENTS OR SPECIAL INS	STRUCTIONS:					13. WASTE	PROFILE	NO.			
	A	AZ FED COM # 001											
1	14		IN CAS	E OF EMERO	GENCY OR SPII	LL, CO	NTAC	T					
1		AME		PHONE NO	A Valley Por				JR EMERO	GENCY NO.			
	_	JOE ONTIVEROS 575-887-4048											
10	Ship	GENERATOR'S CERTIFI pping name and are classified, packer remational and national government	ed, marked, and la	abeled, and are in a	all respects in proper of	ondition	for trans	port by highway	according	to applicable			
R	PRI	NTED/TYPED NAME			SIGNATURE					DATE			
	co). MAN: CHASE SETTLE											
T								12000	1				
	16.	TRANSPOR	TER (1)	Tay sale	17.	T	RANS	SPORTER (2	2)	No. of the last			
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A N S P	NAM TEX	ME: BDS ENTE	ERPRISES		NAME:			WARREN WARREN					
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ENERA

DISPOSAL SITE: COPIES 2 & 3 COPY 1

Page 107 of 126

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

LEA LAND LLC



	1300 WEST MAI	N STREET • OKL	AHOMA CITY, OK 73106	• PHONE	(405) 236-4	1257	52	\mathcal{S}
NO	N-HAZARDOUS WASTE MAI	NIFEST NO	143589	1. P.	AGEOF	2. TRAII	LER NO.	(PD
G	3. COMPANY NAME E.O.G. Resources PHONE NO.	4. ADDRESS 105 South CITY		882	ZIP 6.	PICK-UP DATE 3/4/2021 TNRCC I.D. NO		in a
E	7. NAME OR DESCRIPTION OF WASTE SH		14141		NTAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N E	Non-Regulated, Non Hazardous W b.							
R	e. evr: 12 110				6.1	A Section 1		
A	12. COMMENTS OR SPECIAL INSTRUCTION AJZ FED COM # 001	DNS:	and the same		27/10	13. WASTE I	PROFILE N	0.
Т	JOE ONTIVEROS	PHONE NO 575-887	-4048			THE REAL PROPERTY.	R EMERGE	
0	15.GENERATOR'S CERTIFICATIOn shipping name and are classified, packed, market international and national government regulations.	d, and labeled, and a	ire in all respects in proper	condition	for transpor	t by highway ac	cording to a	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE		SIGNATURE					DATE
T R A N S P O R T E R	NAME: BDS ENTERPRITEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: BEMERGENCY PHONE: (57) 18. TRANSPORTER (1): Acknowledgment PRINTED/TYPED NAME / CTOL	SES RIAN STEVER 75) 302-8498 ent of receipt of ma MENDOZ	terial 19. TRANSPO	MERGENO PHONE: ORTER ED NAME	CY CONTA	William Co.	receipt of r	naterial
S	SIGNATURE PARELLANDE	DATE ADDRESS:	8/4/2 12 1 IGNATURE _		SC W.		DATE	VORTO :
FA	Lea Land, LLC		Mile Marker 64, 30 Miles East of			80, PHONE		87-4048
CIL	WM-01-035 - New M		20. COMMENTS	2 AT 182	The state of	DIVISION	N. S. L. S.	
I	21.DISPOSAL FACILITY'S CERTIF facility is authorized and permitted to receive such	CICATION: I He	ereby certify that the abov	e describe	d wastes we	ere delivered to	this facility	, that the
Y	AUTY DRIZED SIGNATURE	On Foll	CELL NO.		DA	ге 6/4/2021	T	IME, 40

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

G	3. COMPANY NAME E.O.G. Resources 4. ADDRESS 105 South 4th	h St.		5. I	PICK-UP DATE 1/9/2021	3				
E	PHONE NO. (575) 748-1471 CITY Artesia	STATE NM								
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXA WASTE II			
N	Non-Regulated, Non Hazardous Waste		1	СМ						
E	b. c.									
R	wr: 71, 37D									
4	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL # 1				13. WASTE I	PROFILE N	IO.			
	14. IN CASE OF EMEI	RGENCY OR SPI	ILL, CO	NTACT						
Т	NAME PHONE NO JOE ONTIVEROS 575-887-4				24-HOUF	R EMERGE	NCY NO.			
0	15.GENERATOR'S CERTIFICATION: I Hereby declare t shipping name and are classified, packed, marked, and labeled, and are international and national government regulations, including applicable	n all respects in proper	condition f	or transport	by highway ac	cording to a	applicable			
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE	SIGNATURE					DATE			
T	16. TRANSPORTER (1)	17.	T	RANSPO	RTER (2)					
R A	NAME: CCI	NAME:								
5	TEXAS I.D. NO.	TEXAS I.D. NO).							
P	(A32) 7/1_2500	IN CASE OF ER		Y CONTAC	CT:					
1	PRINTED/I'YPED NAME	EMERGENCY I 19. TRANSP PRINTED/ГУР	ORTER			receipt of n	naterial			
R		9/2 021 SIGNATURE _				DATE				
F		Tile Marker 64, 1 Miles East of 0		•	PHONE:		37-4048			
A C	PERMIT NO.	20. COMMENTS								
I	21.DISPOSAL FACILITY'S CERTIFICATION: 1 Here	by certify that the above	e described	l wastes wer	re delivered to	this facility,	that the			
L	facility is sutherized and normitted to reasily such years	by certify that the abov								

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

	N-HAZARDOUS WASTE MANIF			5164		AGEC		2. TRAII		
G	PHONE NO.	105 S		STATE NM	882	ZIP 6		EK-UP DATE 1/2021 RCC I.D. NO		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE			1000	8. CO	NTAINER		9. TOTAL OUANTITY	10. UNIT	II. TEX
N	Non-Regulated, Non Hazardous Waste	e			No. 1	Туре	1	QUANTITI	WU VOI.	WASIE
E	b. c.					-				
R	WT: 2(284D)									
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL #1						1	3. WASTE P	PROFILE N	O.
Т	14. IN CA		EMERGE NE NO	NCY OR SP	PILL, CO	NTAC	Г	24-HOUR	R EMERGE	NCY NO.
,	JOE ONTIVEROS		5-887-4048							
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, inc	d labeled	, and are in all r	espects in proper	r condition	for transp	ort by	highway acc	cording to a	pplicable
R	PRINTED/TYPED NAME		S	IGNATURE						DATE
	CO. MAN: CHASE SETTLE									
T	CO. MAN: CHASE SETTLE 16. TRANSPORTER (1)			17.	Т	RANSI	POR	TER (2)	-	-
R A	THE REAL PROPERTY OF THE PARTY			17. NAME:	Т	'RANSI	POR	ETER (2)		
R A N	16. TRANSPORTER (1) NAME: CCI TEXAS I.D. NO.					RANSI	POR	TER (2)		
R A N S P	16. TRANSPORTER (1) NAME: CCI TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS		ALDON	NAME:	O .					
R A N S	16. TRANSPORTER (1) NAME: CCI TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS EMERGENCY PHONE: (432)	741-2	ALDON 509	NAME: TEXAS I.D. NO IN CASE OF E EMERGENCY	O. EMERGENO PHONE:	CY CONT	ract			
R A N S P O R T E	16. TRANSPORTER (1) NAME: CCI TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS	741-2	ALDON 509	NAME: TEXAS I.D. NO IN CASE OF E	D. EMERGENCE PHONE: PORTER	(2): Acl	ract		receipt of m	naterial
R A N S P O R T	16. TRANSPORTER (1) NAME: CCI TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS EMERGENCY PHONE: (432) 18. TRANSPORTER (1): Acknowledgment of	741-2	SLDON 509 t of material	NAME: TEXAS LD. NO IN CASE OF E EMERGENCY 19. TRANSP	D. EMERGENC PHONE: PORTER PED NAME	(2): Acl	ract	: ledgment of r	receipt of m	naterial
R A N S P O R T E R S	16. TRANSPORTER (1) NAME: CCI TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS EMERGENCY PHONE: (432) 18. TRANSPORTER (1): Acknowledgment of the contact of the conta	741-29 of receipt DATE	SPESS: Mile N	NAME: TEXAS LD. NO IN CASE OF E EMERGENCY 19. TRANSP PRINTED/TYI 21 SIGNATURE Marker 64,	D. EMERGENCE PHONE: PORTER PED NAME U.S. HV	(2): Acl	FACT	ledgment of r		
R A N S P O R T E R S	16. TRANSPORTER (1) NAME: CCI TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS EMERGENCY PHONE: (432) 18. TRANSPORTER (1): Acknowledgment of the contact of the conta	741-29 of receipt DATE ADD	e of material 8/9/20: PRESS: Mile N	NAME: TEXAS LD. NO IN CASE OF E EMERGENCY 19. TRANSP PRINTED/TYI 21 SIGNATURE	D. EMERGENCE PHONE: PORTER PED NAME U.S. Hv	(2): Acl	FACT	ledgment of r	DATE	
R A N S P O R T E R S	16. TRANSPORTER (1) NAME: CCI TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS EMERGENCY PHONE: (432) 18. TRANSPORTER (1): Acknowledgment of PRINTED/PAPED NAME SIGNATURE Lea Land, LLC PERMIT NO. WM-01-035 - New Mex 21. DISPOSAL FACILITY'S CERTIFIC.	741-29 of receipt DATE ADD ico	8/9/20: ORESS: Mile N	NAME: TEXAS LD. NO IN CASE OF E EMERGENCY 19. TRANSP PRINTED/TYI 21 SIGNATURE Marker 64, les East of D. COMMENTS	D. EMERGENCE PHONE: PORTER PED NAME U.S. Hv Carlsba	(2): Acl	fACT.	ledgment of 1	575-88	37-4048

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	N-HAZARDOUS WASTE MANII 13. COMPANY NAME			L451	00	1. P/	AGE		2. TRAII		()1
G	E.O.G. Resources		RESS outh 4t				ain.	8/9	/2021		
E	PHONE NO. (575) 748-1471	CITY Artesi	ia	STAT	NM	882			RCC I.D. NO).	
	7. NAME OR DESCRIPTION OF WASTE SHIPP	PED:				8. COI No.	NTAINE Typ		9. TOTAL WANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#
N	Non-Regulated, Non Hazardous Was	te				1	СМ				
E	b. c.				_			+	-		
R	WT: 25,3(10)										
A	12. COMMENTS OR SPECIAL INSTRUCTIONS PAN AM PARDUE AIZ FEDERAL #							1:	3. WASTE F	ROFILE N	0.
T	14. IN C. NAME JOE ONTIVEROS	PHON	F EMER NE NO 5-887-40		OR SPI	LL, CO	NTAC	CT	24-HOUR	EMERGE	NCY NO.
o	15.GENERATOR'S CERTIFICATION shipping name and are classified, packed, marked, a international and national government regulations, in	and labeled	d, and are in	n all respec	ts in proper	condition	for trans	port by	highway ac	cording to a	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNA	ATURE						DATE
T R A N S P	(A22	S GAV/		IN C	IE: AS I.D. NO. ASE OF EM	1ERGENO			TER (2)		
R T E R	18. TRANSPORTER (1): Acknowledgment	t of receipt	t of materi	al 19. T	RANSPO	ORTER		cknowl	edgment of	receipt of n	naterial
S	PRINTED/TYPED NAME/AIFARES COLVILLO	DATE	8/1	9/2021 SIG	NATURE_				I	DATE	
D F	Lea Land, LLC	ADD			ker 64, I East of (•		PHONE:	575-88	7-4048
I A S C P I	PERMIT NO. WM-01-035 - New Me	exico		20. CC	MMENTS	-					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		N: I Herel	by certify th	at the above	e describe	d wastes	were d	lelivered to t	his facility,	that the
LY	AUTHORIZED SIGNATURE	July	مر() م	CEI	LL NO.	/	I	DATE 8/9	/2021	TI	ME OD

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T R A N S P O R T E R S

LEA LAND DISPOSAL SITE NEW MEXICO

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

-HAZARDOUS WASTE MAN	VIFEST NO	145166	1. P.	AGEOF	2. TRAIL	ER NO.	90
3. COMPANY NAME E.O.G. Resources	105 South			5. 8	PICK-UP DATE 3/9/2021		471
PHONE NO. (575) 748-1471	CITY Artesia	STATE NM	882		ΓNRCC I.D. NO).	
7. NAME OR DESCRIPTION OF WASTE SH	HIPPED:		8. COI No.	NTAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
Non-Regulated, Non Hazardous V	Vaste		1	СМ			
WT: 245700)							
12. COMMENTS OR SPECIAL INSTRUCTION	ONS:				13. WASTE P	ROFILE N	0.
PAN AM PARDUE AIZ FEDERAL	.#1						
		ERGENCY OR SPI	ILL, CO	NTACT			
NAME JOE ONTIVEROS	PHONE NO 575-887 -	4049			24-HOUR	EMERGE	NCY NO.
PRINTED/TYPED NAME CO. MAN: CHASE SETTLE		SIGNATURE					
16. TRANSPORTER ((1)	17.	Т	RANSPO	ORTER (2)		
NAME: CCI		NAME:					
TEXAS I.D. NO.		TEXAS I.D. NO					
	UIS GAVALDO	N IN CASE OF EN	/EDGEN(CY CONTA	CT:		
IN CASE OF EMERGENCY CONTACT:		IN CASE OF EN	MERGEN				
EMERGENCY PHONE:	132) 741-2509	EMERGENCY I	PHONE:				
EMERGENCY PHONE: (4): Acknowledge		EMERGENCY I	PHONE:	(2): Ackn	owledgment of	receipt of n	naterial
EMERGENCY PHONE:	ment of receipt of mat	EMERGENCY I erial 19. TRANSP PRINTED/TYP	PHONE: ORTER		owledgment of	receipt of n	naterial
EMERGENCY PHONE: (4): Acknowledge	ment of receipt of mat	EMERGENCY I	PHONE: ORTER			receipt of n	naterial
EMERGENCY PHONE: 8. TRANSPORTER (1): Acknowledge PRINTED/TYPED NAME CARLO	DATE ADDRESS:	EMERGENCY I erial 19. TRANSP PRINTED/TYP	PHONE: ORTER ED NAME	wy 62/18	PHONE:	DATE	aterial

Released to Imaging, 4/15/20 GENERATOR: COPIES 1 & 6

C

S I A T L Y

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

8/9/2021

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

LEA LAND, LLC

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		/ 1 1	4

NOI	N-HAZARDOUS WASTE MANI	FEST	NO 14	5167	1. PA	AGE	OF	2. TRAIL	LER NO.	Tho
G	3. COMPANY NAME E.O.G. RESOURCES PHONE NO. (575) 748-1471	106 SA	With 4th S		882	ZIP		202 PATE		110
E	7. NAME OR DESCRIPTION OF WASTE SHIP.	PED:			8. COl	NTAINE I Type		. TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS
N	Non-Regulated, Non Hazardous Wa	ste			1	СМ		31111111	vv v voi.	WIGIE
E	b. c.									
R	WT: 26360									
A	12. COMMEN'S OR SPECIAL INSTRUCTION PAN AM PARDUE AIZ FEDERAL #						13	. WASTE P	ROFILE N	O.
Т	NAME JOE ONTIVEROS	PHONE		ENCY OR SPI	LL, CO	NTAC	Т	24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION shipping name and are classified, packed, marked, international and national government regulations,	and labeled, a	and are in all	respects in proper of	condition	for transp	ort by l	nighway acc	cording to a	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE						DATE
T R A N S P O R	EMERGENCY PHONE: (43)	IS GAVAL 2) 741-25(09	17. NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY P	IERGENO			TER (2)		
T E R	18. TRANSPORTER (1); A knowledgment PRINTED/TYPED NAME SIGNATURE	DATE	s	19. TRANSPO PRINTED/TYPE 321 SIGNATURE	D NAME		knowle		receipt of m	aterial
F	Lea Land, LLC	ADDR	RESS: Mile	Marker 64, U	J.S. Hv	vy 62/		PHONE:		7-4048
A C I	PERMIT NO. WM-01-035 - New Me	exico		20. COMMENTS						
LIT	21.DISPOSAL FACILITY'S CERTIFIFICATION facility is authorized and permitted to receive such	ICATION: h wastes.	: I Hereby co	ertify that the above	described	d wastes	were de	livered to the	his facility,	that the
Ŷ	ADTHORIZED SIGNATURE	7000	7.	CELL NO.		D	ATE 8/9/	2021	TH	Go J

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

LEA LAND, LLC

	1300 WEST MAIN	STREET • 0	OKLAHOMA	CITY, OK 73106	PHONE	(405) 23	36-4257		_17	arul
NON	-HAZARDOUS WASTE MANI	HEST .	NO 14	5168	1. P.	AGE	OF	2. TRAIL	ER NO.	04
G	3. COMPANY NAME E.O.G. Resources	105 S	RESS Outh 4th S	t.			5. PICI	2021 PATE		
E	PHONE NO. (575) 748-1471	CITY Artesi	a	STATE NM	882		6. TNR	.CC I.D. NC).	
	7. NAME OR DESCRIPTION OF WASTE SHIP	PED:			8. COI No.	NTAINE Typ		O. TOTAL UANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	Non-Regulated, Non Hazardous Wa	ste			1	СМ				- 1
	b.									
E	c.									
R	wr: 2812D									
A	12. COMMENTS OR SPECIAL INSTRUCTION PAN AM PARDUE AIZ FEDERAL #						13	. WASTE P	ROFILE N	0.
	14. IN C	CASE OF	F EMERG	ENCY OR SPI	LL, CC	NTAC	T			
T	JOE ONTIVEROS		NE NO 5-887-404	3				24-HOUR	EMERGE	NCY NO.
o	15.GENERATOR'S CERTIFICATION shipping name and are classified, packed, marked, international and national government regulations,	and labeled,	l, and are in all	respects in proper	condition:	for trans	port by	highway acc	ording to ap	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE						DATE
T R A	16. TRANSPORTER (1) NAME: CCI			17. NAME:	T	RANS	POR	ΓER (2)		
N	TEXAS I.D. NO.	IS GAVA	NOON	TEXAS I.D. NO.						
P O	IN CASE OF EMERGENCY CONTACT:	2) 741-25		IN CASE OF EMERGENCY F		CY CON	TACT:			
R T E	18. TRANSPORTER (1): Acknowledgmen	nt of receipt	of material	19. TRANSPO	ORTER		cknowle	edgment of r	eceipt of m	aterial
R	PRINTED/TYPED NAME TO THE PRINTED/TYPED NAME	300	8/9/2	PRINTED/TYPE 021					-	
	SIGNATURE	DATE		SIGNATURE					ATE	
D F	Lea Land, LLC	ADD		Marker 64, Utiles East of O				PHONE:	575-88	7-4048
S C P I	PERMIT NO. WM-01-035 - New Me	exico		20. COMMENTS						
O L S I A T	21.DISPOSAL FACILITY'S CERTIFI facility is authorized and permitted to receive such		N: I Hereby c	ertify that the above	described	i wastes	were de	elivered to th	nis facility, t	that the
LY	AUTHORIZED LIGNATURE	n7(300	CELL NO.		D	0ATE 8/9	/2021	TIN	ME 05

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

LEA LAND, LLC

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_		_		_		7	_	_	-		_
ON	N-HAZARDOUS WASTE MANIF	EST	NO	145	5169	1. P.	AGE	OF_	2. TRAII	LER NO.	01
	3. COMPANY NAME E.O.G. Resources PHONE NO. (575) 748-1471	4. ADD 105 S CITY Artesi	South	4th St.	STATE NM	882	ZIP	8/8	CK-UP DATE 3/2021 RCC I.D. NO		
1	7. NAME OR DESCRIPTION OF WASTE SHIPPE	1			14101	8. CO	NTAINE		9. TOTAL	10. UNIT	II. TEX
	Non-Regulated, Non Hazardous Wast	6				No. 1	Тур	ie (QUANTITY	Wt/Vol.	WASTE I
	b.						-	+			
	c.					+	1	+			
	twr: 27980							1			
	12. COMMENTS OR SPECIAL INSTRUCTIONS PAN AM PARDUE AIZ FEDERAL # 1							1	13. WASTE F	ROFILE N	O.
	14. IN CA	ASE OF	F EM	ERGE	NCY OR SP	ILL, CO	NTAC	СТ			
	JOE ONTIVEROS		NE NO 5-887	7-4048					24-HOUR	EMERGE	NCY NO.
	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, ar international and national government regulations, in	nd labeled	d, and a	re in all re	spects in proper	condition	for trans	port by	y highway acc	cording to a	pplicable
	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			S	IGNATURE						DATE
	EMERGENCY PHONE: (432)	6 GAVA) 741-2	509	DN .	17. NAME: FEXAS I.D. NO IN CASE OF E EMERGENCY	D. MERGENO PHONE:	CY CON	ITACT			
	18. TRANSPORTER (1): Acknowledgment PRINTED/TYPED NAME SIGNATURE	_	10	8/8/202	19. TRANSP PRINTED/TYP 1 SIGNATURE	PED NAME	E	cknow		DATE	naterial
?	Lea Land, LLC	ADD		Mile N	Marker 64, les East of		_		PHONE:		37-4048
2	PERMIT NO. WM-01-035 - New Mex	xico			. COMMENTS						
_ []	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		N: I H	ereby cert	ify that the above	ve described	d wastes	were (delivered to t	his facility,	that the
Y	AUTHORIZED SIGNATURE	MN	O _o t		CELL NO.		I	DATE	9/2021	TI	MFD

	1300 WEST MAIN ST		AND, LLC MA CITY, OK 73106		(405) 23	6-4257	ente	ND
NON	-HAZARDOUS WASTE MANIF	EST NO 1	45170	1. P/	AGE	OF 2.	TRAILER NO.	D4
G	3. COMPANY NAME E.O.G. Resources	105 South 4th	n St.	3		5. PICK-UP 8/9/202	DATE	
E	PHONE NO. (575) 748-1471	CITY Artesia	STATE NM	882	10	6. TNRCC I.		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:		8. COl No.	NTAINE		The second second second second	
N	Non-Regulated, Non Hazardous Wast	e		1	СМ		-	
E	b.							
R	«wт: 1/1. 0 Л			1	H			
	12. COMMENTS OR SPECIAL INSTRUCTIONS: PAN AM PARDUE AIZ FEDERAL #1					13. WA	STE PROFILE	NO.
A			RGENCY OR SPI	LL, CO	NTAC			
Т	NAME JOE ONTIVEROS	PHONE NO 575-887-4 0	D48			24-1	HOUR EMERO	GENCY NO.
	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in	all respects in proper	condition:	for transp	ort by highw	ay according to	applicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE		SIGNATURE					DATE
T	16. TRANSPORTER (1)		17.	T	RANS	PORTER	(2)	
R A	NAME: CCI		NAME:					
N S	TEXAS I.D. NO.	041/41/0011	TEXAS I.D. NO.					
P O	IN CASE OF EMERGENCY CONTACT:	741-2509	IN CASE OF EM		CY CON	TACT:		
R T	EMERGENCY PHONE: (432) 18. TRANSPORTER (1): Acknowledgment		el 19. TRANSPO		(2): Ad	knowledgme	nt of receipt of	material
E R	PRINTED/TYPED NAME JOHAN S	OMMZR	PRINTED/TYPE		<u> </u>			
S	SIGNATURE	DATE 8/1	021 SIGNATURE _				DATE	
	Lea Land, LLC	ADDRESS:	ile Marker 64, U		vv 62/		ONE: 575-8	387-4048
DF	200 2010, 220		Miles East of (
I A S C P I	PERMIT NO. WM-01-035 - New Mex	tico	20. COMMENTS					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		by certify that the above	e described	d wastes	were delivere	ed to this facilit	y, that the
LY	AUTHORIZED SIGNATURE	2000	CELL NO.		D	ATE 8/9/202		TIME TO

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

LEA LAND, LLC

NO.	N-HAZARDOUS WASTE MANIFEST NO 1	45171	1. P.	AGE	OF	2. TRAIL	ER NO.	57
G	3. COMPANY NAME E.O.G. Resources 4. ADDRESS 105 South 4th					K-UP DATE / 2021		
E	PHONE NO. (575) 748-1471 CITY Artesia	STATE NM	882	ZIP	6. TNR	CC I.D. NO).	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CO: No.	NTAINE		O. TOTAL UANTITY	10. UNIT Wt/Vol.	11. TEXA
N	Non-Regulated, Non Hazardous Waste		1	СМ				TE III E
E	b. c.		-	-	-			
R	W: 225X()		+	-	+			
	12. COMMENTS OR SPECIAL INSTRUCTIONS:		-		13	. WASTE P	ROFILE N	Ю.
4	PAN AM PARDUE AIZ FEDERAL#1 IN CASE OF EMER	GENCY OR SPI	III. CC)NTA(т		_	
T	NAME PHONE NO JOE ONTIVEROS 575-887-40		EE, CC	<i>-</i>		24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: I Hereby declare the shipping name and are classified, packed, marked, and labeled, and are international and national government regulations, including applicable states.	all respects in proper	condition	for trans	port by	highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE	SIGNATURE						DATE
T R	16. TRANSPORTER (1)	17.	Т	RANS	SPORT	ΓER (2)		
A N	NAME: CCI TEXAS I.D. NO.	NAME: TEXAS I.D. NO.						
SP	IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON	IN CASE OF EM		CY CON	TACT:			
O R T	EMERGENCY PHONE: (432) 741-2509 18. TRANSPORTER (1): Acknowledgment of receipt of material	1 19. TRANSPO		2 (2): A	cknowle	edgment of r	eceipt of m	naterial
E R	PRINTED/TYPED NAME OF SDL CHOYO	PRINTED/TYPI	ED NAMI	Ε				
S	SIGNATURE - N & DATE 8/9	SIGNATURE _				D	ATE	_
F	30	ile Marker 64, I Miles East of 0				PHONE:	575-88	37-4048
A C	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS						
O L	21 DISPOSAL FACILITY'S CERTIFICATION: I Hereby	y certify that the above	e describe	d wastes	were de	elivered to th	nis facility,	that the
LIT	racinty is audiorized and permitted to receive such wastes.							

-HAZARDOUS WASTE	MANIFEST NO	145172	1. P.	AGEOF	2. TRAII	LER NO.	10
3. COMPANY NAME E.O.G. Resources	105 South 41	th St.		5. 8	19/202 PATE		
PHONE NO. (575) 748-1471	CITY Artesia	STATE NM	882		TNRCC I.D. NO).	
7. NAME OR DESCRIPTION OF WAS	STE SHIPPED:		8. COI	NTAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	II. TE WASTE
Non-Regulated, Non Hazard	ous Waste		1	СМ			1
).							
WT:21840							-
12. COMMENTS OR SPECIAL INSTI PAN AM PARDUE AIZ FEDE					13. WASTE F	PROFILE N	О.
		DCENCY OD CD		NIT A OT			_
NAME JOE ONTIVEROS	PHONE NO 575-887-4		LL, CC	NIACI	24-HOUR	REMERGE	NCY NO
PRINTED/TYPED NAME CO. MAN: CHASE SETTLE		SIGNATURE					DATE
16. TRANSPORT		17.	Т	RANSPO	ORTER (2)		
NAME: CO	3 1	NAME: TEXAS I.D. NO					
IN CASE OF EMERGENCY CONTAC	LUIS GAVALDON (432) 741-2509			CY CONTAC	CT:		
EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledge		rial 19. TRANSP		(2): Aclend	owledgment of	receipt of m	naterial
PRINTED/TYPED NAME	so Estre-O	PRINTED/TYP		B			_
SIGNATURE	DATE 3	/B/2021 SIGNATURE _			I	DATE	
Lea Land, LLC	ADDRESS:	Mile Marker 64, 1 0 Miles East of 0	U.S. Hv		PHONE:	575-88	37-404
PERMIT NO.		20. COMMENTS					

	1300 WEST MAIN S			ND, LLC CITY, OK 73106		(405) 23	6-4257	T	hrr	63
NON	N-HAZARDOUS WASTE MANIE	FEST	NO 14	5233	1. P.	AGE	OF	2. TRAII	ER NO.	90
G	3. COMPANY NAME E.O.G. Resources PHONE NO. (575) 748-1471	4 ADDRE 105 Sou CITY Artesia			882	ZIP		UP DATE 2 021 CC I.D. NO		
E	7. NAME OR DESCRIPTION OF WASTE SHIPP	ED:			8. COI	NTAINE		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#
N	Non-Regulated, Non Hazardous Wast	te			1	СМ				
E	b. c.									
R	WT: 25320								37.47	
A	12. COMMENTS OR SPECIAL INSTRUCTIONS PAN AM PARDUE AIZ FEDERAL # 1						13.	WASTE P	ROFILE N	0.
T	IA. IN C. NAME JOE ONTIVEROS	PHONE		ENCY OR SP	ILL, CO	NTAC	Т	24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION shipping name and are classified, packed, marked, a international and national government regulations, i	nd labeled, as	nd are in all	respects in proper	condition	for transp	ort by h	nighway acc	cording to a	pplicable
R	PRINTED/IYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE						DATE
T R A N S P O R T E R S	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment	GAVALI) 741-250 of receipt of) ORCS DATE	9	17. NAME: TEXAS I.D. NO IN CASE OF EI EMERGENCY 19. TRANSP PRINTED/TYP SIGNATURE _	MERGENO PHONE: ORTER ED NAME	CY CON	TACT:		receipt of m	naterial
D F	Lea Land, LLC	ADDRE	Mile	Marker 64, liles East of		•		PHONE:	575-88	7-4048
I A S C P I	PERMIT NO. WM-01-035 - New Me.	xico		20. COMMENTS						
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		I Hereby c	ertify that the abov	e describe	d wastes	were de	livered to the	his facility,	that the
LY	AUJIT ORIZED SIGNATURE	~~ ^	0-	CELL NO.		D	ATE	2024	TIR	ME , 15

L	EA	LA	IN	D.	LI	C
_			TT A			\sim

	1300 WEST M		A LAND, LLC OKLAHOMA CITY, OK 73106		(405) 2	36-4257	7	B	DVS
NOI	N-HAZARDOUS WASTE MA	ANIFEST	NO 145234	1. P.	AGE	OF	2. TRAIL	ER NO.	01
G	3. COMPANY NAME E.O.G. Resources		uth 4th St.			8/10/2	UP PATE		
E	PHONE NO. (575) 748-1471	Artesia	STATE NM	882			C 1.D. NO		
	7. NAME OR DESCRIPTION OF WASTE	SHIPPED:		8. COI No.	NTAINE Typ		TOTAL ANTITY	10. UNIT Wt/Vol.	II. TEXAS WASTE ID #
N	Non-Regulated, Non Hazardous	Waste		1	СМ	7			
E	b. c.								
R	***: 21580								
A	12. COMMENTS OR SPECIAL INSTRUC PAN AM PARDUE AIZ FEDERA					13.	WASTE P	ROFILE N	O.
Т	NAME ONTIVEROS	PHON	EMERGENCY OR SPI E NO -887-4048	LL, CC	ONTAC		24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICAT shipping name and are classified, packed, ma international and national government regula	rked, and labeled,	and are in all respects in proper	condition	for trans	port by hi	ghway acc	ording to a	pplicable
R	PRINTED/TYPED NAME		SIGNATURE						DATE
T R	16. TRANSPORTER	2 (1)	17.	Т	RANS	PORTI	ER (2)		
A	NAME:		NAME:						
N	TEXAS I.D. NO.	LUIS GAVA	LDON TEXAS I.D. NO						
P O		(432) 741-25	IN CASE OF EN		CY CON	TACT:			
R T E	18. TRANSPORTER (1): Acknowled			ORTER		cknowled	gment of r	receipt of m	aterial
R	PRINTED/TYPED NAME ATTOUS CO	DATE OLL	6/10/2 PRINTED/TYPI 8/10/2 121 SIGNATURE _				D	ATE	
D F	Lea Land, LLC	ADDI	Mile Marker 64, l			/180,	PHONE:	575-88	7-4048
I A S C P I	PERMIT NO. WM-01-035 - New	Mexico	30 Miles East of 0 20. COMMENTS	Carlsba	id, NN	1			
O L S I A T	21.DISPOSAL FACILITY'S CER facility is authorized and permitted to receive		: I Hereby certify that the above	e describe	d wastes	were deli	vered to th	nis facility,	that the
LY	ABTHORIZED SIGNATURE	0400	CELL NO.	/	Г	ATE 8/10/2	021	TIT	ME , 70

N-HAZARDOI	US WASTE MAN			5235	1. PA	AGEOF	2. TRAII	LER NO.	ni
3. COMPANY NAM E.O.G. Resour PHONE NO. (575) 748-1471	roes	CITY	RESS 4th S	STATE	882	ZIP 6.	PICK-UP PATE 10/2021 TNRCC I.D. NO		
	RIPTION OF WASTE SH			14101		NTAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	II. TE
Non-Regulated.	, Non Hazardous W	/aste			1	СМ	QOANTITY	WD VOI.	WASIE
b.									
c.									
WT: 252	20								
	R SPECIAL INSTRUCTIO						13. WASTE F	ROFILE N	O.
PAN AM PARD	UE AIZ FEDERAL :	#1 							
14. NAME	IN	CASE OF		ENCY OR SP	ILL, CO	NTACT		REMERGE	NCV NO
JOE ONTIVER	os .		-887-4048				24-HUUN	EWERGE	NC I NU
shipping name and an	and are in all	that the contents of this consignment are fully and accurately described above by p in all respects in proper condition for transport by highway according to applicable e state regulations, and are the same materials previously approved by LEA LAND. SIGNATURE DATE							
PRINTED/TYPED N			ppricable data		are the sam	e materials	previously appr	oved by LE	
CO. MAN: CHA	ASE SETTLE		pprioadio	SIGNATURE				oved by LE	
16. NAME: TEXAS I.D. NO. IN CASE OF EMER	TRANSPORTER (I CCI RGENCY CONTACT: LI	1) UIS GAVAI 32) 741-25	LDON	SIGNATURE 17. NAME: TEXAS I.D. NO IN CASE OF E	T:). MERGENC	RANSPO	ORTER (2)	oved by LE	
16. NAME: TEXAS I.D. NO. IN CASE OF EMER	TRANSPORTER (1) CCI RGENCY CONTACT: (4: DNE: TER (1): Acknowledgm	UIS GAVAI 32) 741-25	LDON 509	SIGNATURE 17. NAME: TEXAS I.D. NO	T: MERGENC PHONE: ORTER	RANSPO	ORTER (2) CT:		DATE
16. NAME: TEXAS I.D. NO. IN CASE OF EMER EMERGENCY PHO 18. TRANSPOR	TRANSPORTER (1) CCI RGENCY CONTACT: (4: DNE: TER (1): Acknowledgm	UIS GAVAI 32) 741-25	LDON 509	SIGNATURE 17. NAME: TEXAS I.D. NO IN CASE OF EI EMERGENCY 19. TRANSP PRINTED/TYP	T. MERGENC PHONE: ORTER PED NAME	RANSPO	ORTER (2) CT:		DATE
CO. MAN: CHA	TRANSPORTER (1) CCI RGENCY CONTACT: (4: DNE: TER (1): Acknowledgm	UIS GAVA 32) 741-25 ment of receipt	LDON i09 of material 8/10/2 RESS: Mile	SIGNATURE 17. NAME: TEXAS I.D. NO IN CASE OF EI EMERGENCY 19. TRANSP PRINTED/TYP	D. MERGENC PHONE: ORTER PED NAME	RANSPO	ORTER (2) CT: nowledgment of phone:	receipt of m	DATE
16. NAME: TEXAS I.D. NO. IN CASE OF EMER EMERGENCY PHO 18. TRANSPOR PRINTED/TYPED IN SIGNATURE Lea La PERMIT NO. WIN	TRANSPORTER (I CCI RGENCY CONTACT: LI ONE: (4: TER (1): Acknowledgm	DATE	LDON i09 of material 8/10/2 RESS: Mile	SIGNATURE 17. NAME: TEXAS I.D. NO IN CASE OF EI EMERGENCY 19. TRANSP PRINTED/TYP SIGNATURE Marker 64,	D. MERGENCE PHONE: ORTER PED NAME U.S. HW	RANSPO	ORTER (2) CT: nowledgment of phone:	receipt of m	DATE
CO. MAN: CHA 16. NAME: TEXAS I.D. NO. IN CASE OF EMER EMERGENCY PHO 18. TRANSPOR PRINTED/TYPED IN SIGNATURE Lea La PERMIT NO. WIN L 21. DISPOSAL F	TRANSPORTER (1) CCI RGENCY CONTACT: LI ONE: (43) TER (1): Acknowledgm NAME OS and, LLC	DATE ADDIT	of material 8/10/2 RESS: Mile 30 M	SIGNATURE 17. NAME: TEXAS I.D. NO IN CASE OF EI EMERGENCY 19. TRANSP PRINTED/TYP SIGNATURE Marker 64, files East of 20. COMMENTS	D. MERGENCE PHONE: ORTER PED NAME U.S. HW Carlsbace	RANSPO	ORTER (2) CT: nowledgment of 1 PHONE:	DATE	naterial

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

LEA LAND, LLC

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	20	YV	110
		1 4 0	43

					T					1013
NON	-HAZARDOUS WASTE MANIF			5236	1. P/	AGE	-	_ 2. TRAIL		U4
G	3. COMPANY NAME E.O.G. Resources	105 S	RESS outh 4th S	t.			5. PIC	K-UP DATE 1/2021		
E	PHONE NO. (575) 748-1471	CITY Artesia	3	STATE NM	882	ZIP 10	6. TN	RCC I.D. NC	l.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8. COl No.	NTAINE Typ		9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	Non-Regulated, Non Hazardous Wast	6			1	СМ				L I A M
E	b. c.									
R	WT: 21580							12 WA OTE D	DOEN EN	
A	12. COMMENTS OR SPECIAL INSTRUCTIONS PAN AM PARDUE AIZ FEDERAL # 1							13. WASTE P	KOFILE N	O.
	14. IN CANAME JOE ONTIVEROS	PHON	EMERG NE NO 1-887-404	ENCY OR SPI	LL, CO	NTAC	CT	24-HOUR	.EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	nd labeled	, and are in al	l respects in proper of	condition	for trans	sport by	y highway acc	cording to a	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE						DATE
T R A N S P	IN CASE OF EMERGENCY CONTACT:	S GAVA		17. NAME: TEXAS I.D. NO. IN CASE OF EM	1ERGENO			RTER (2)		-
R T E R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment PRINTED/TYPED NAME SIGNATURE	1	154	PRINTED/TYPE 321 SIGNATURE	ORTER		Acknow		receipt of n	naterial
D F	Lea Land, LLC	ADD		e Marker 64, Udiles East of C		•		PHONE:	575-88	37-4048
I A S C P I	PERMIT NO. WM-01-035 - New Mex	xico		20. COMMENTS						
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		N: I Hereby	certify that the above	describe	d wastes	s were	delivered to t	his facility,	that the
L Y	AUTHORIZED SIGNATURE	m	100	CELL NO.		I	DATE 8/1 0	0/2021	TI	ME , 30

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

LEA LAND, LLC

NO	N-HAZARDOUS WASTE	MANIFEST	145237	1. P	AGE	OF 2. TRAII	LER NO.	12
G	3. COMPANY NAME E.O.G. Resources	1000	sh 4th St.			5. PICK-UP DATE 8/10/2021		
E	PHONE NO. (575) 748-1471	Artesia	STATE NM	882		6. TNRCC I.D. NO).	
	7. NAME OR DESCRIPTION OF WA	STE SHIPPED:		8. CO No.	NTAINE Typ		10. UNIT Wt/Vol.	WASTE ID
N	Non-Regulated, Non Hazardo	ous Waste		1	СМ			
E	c.				-	-		
R	WT: 2292D	70.22						
A	12. COMMENTS OR SPECIAL INST					13. WASTE F	ROFILE N	IO.
	14.		EMERGENCY OR SPI	LL, CO	ONTAC			
T	JOE ONTIVEROS	PHONE 1 575-8	NO 87-4048			24-HOUR	REMERGE	ENCY NO.
0	15.GENERATOR'S CERTIFIC shipping name and are classified, packed international and national government in	d, marked, and labeled, an	d are in all respects in proper	condition	for trans	port by highway ac	cording to a	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE		SIGNATURE				- 11	DATE
T R	16. TRANSPORT	TER (1)	17.	1	RANS	PORTER (2)	•	
A	NAME: CO	CI	NAME: TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTA	CT: LUIS GAVALE	The second secon		CY CON	TACT:		
O R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledges	(432) 741-2509	EMERGENCII		(2) · A	cknowledgment of	receipt of n	natorial
E	1	animo Amies				eknowiedgilen of		
R	SIGNATURE SIGNATURE	DATE	8/10/2 021 SIGNATURE_			1	DATE	
	Lea Land, LLC	ADDRE	ss: Mile Marker 64, U 30 Miles East of 0		-		575-88	37-4048
F			20. COMMENTS					
A C P I	PERMIT NO. WM-01-035 - N	New Mexico						
A	PERMIT NO. WM-01-035 - N 21.DISPOSAL FACILITY'S C	ERTIFICATION:	I Hereby certify that the above	e describe	d wastes	were delivered to t	his facility,	that the

LEA	LA	ND.	LL	C

	E MANIFEST	NO 1 4	5238	1. PA	AGEC	OF_	2. TRAIL	LER NO.	5
3. COMPANY NAME E.O.G. Resources PHONE NO. (575) 748-1471	105 S	outh 4th S	STATE	882	ZIP		DE PATE		
7. NAME OR DESCRIPTION OF W	ASTE SHIPPED:			8. CON	NTAINEI Type		TOTAL ANTITY	10. UNIT Wt/Vol.	11. TEX
Non-Regulated, Non Hazar	dous Waste			1	СМ				
b. c.									
WT: 24820									
12. COMMENTS OR SPECIAL INS PAN AM PARDUE AIZ FEE						13. \	WASTE P	ROFILE N	0.
NAME JOE ONTIVEROS	PHON	F EMERG NE NO 5-887-404 8	ENCY OR SPI	LL, CO	NTAC		24-HOUR	EMERGE	NCY NO
15.GENERATOR'S CERTIF shipping name and are classified, pack international and national government	ked, marked, and labeled	l, and are in al	l respects in proper	condition 1	for transp	ort by hig	ghway acc	ording to a	pplicable
PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE						DATE
TEXAS I.D. NO. IN CASE OF EMERGENCY CONT.	CCI		17. NAME: TEXAS I.D. NO. IN CASE OF EMERGENICA SERVICE SERV	1ERGENC		PORTE	ER (2)		
NAME: (CCI ACT: LUIS GAVA (432) 741-29	509	NAME: TEXAS I.D. NO.	MERGENC PHONE: DRTER	(2): Ac	TACT:		eceipt of m	aterial
NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONT. EMERGENCY PHONE: 18. TRANSPORTER (1): Ack	CCI ACT: LUIS GAVA (432) 741-29	509	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY F 19. TRANSPO	MERGENC PHONE: DRTER	(2): Ac	TACT:	gment of r	eccipt of m	aterial
NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONT. EMERGENCY PHONE: 18. TRANSPORTER (1): Ack PRINTED/TYPED NAME.	(432) 741-28 chowledgment of receipt	t of material 8/10/2 PRESS: Mile	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY F 19. TRANSPO PRINTED/TYPE	MERGENCE PHONE: DRTER ED NAME	(2): Ac	ract: knowledg	gment of r		_
NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONT. EMERGENCY PHONE: 18. TRANSPORTER (1): Ack PRINTED/TYPED NAME SIGNATURE	CCI ACT: LUIS GAVA (432) 741-29 mowledgment of receipt LUIS GAVA DATE ADD	t of material 8/10/2 PRESS: Mile	NAME: TEXAS I.D. NO. IN CASE OF EN EMERGENCY F 19. TRANSPO PRINTED/TYPE 321 SIGNATURE Marker 64, I	MERGENCE PHONE: DRTER ED NAME	(2): Ac	ract: knowledg	gment of r	ATE	_

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) 2	36-4257		+	
NOI	N-HAZARDOUS WASTE MANI	FEST	NO 14	5239	1. P/	AGE_	OF	2. TRAIL	LER NO.	
G E	3. COMPANY NAME E.O.G. Resources PHONE NO. (575) 748-1471	105 S CITY Artesi	PRESS 4th Siouth 4th Si	STATE	882	ZIP 10		K-UP DATE		
L	7. NAME OR DESCRIPTION OF WASTE SHIP	PED:			8. CON	NTAINI I Tyl		9. TOTAL DUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	Non-Regulated, Non Hazardous Was	ste			1	СМ				
E	b. c.						1			
R	wr: 21940									
A	12. COMMENTS OR SPECIAL INSTRUCTION PAN AM PARDUE AIZ FEDERAL #						1:	3. WASTE P	ROFILE N	O.
Т	14. IN CONTIVEROS	PHON	F EMERGI NE NO 5-887-4048	ENCY OR SP	ILL, CO	NTA	CT	24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION shipping name and are classified, packed, marked, international and national government regulations,	and labeled	d, and are in all	respects in proper	condition i	for trans	sport by	highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE						DATE
T R A N S P	IN CASE OF EMERGENCY CONTACT:	S GAVA 2) 741-2		17. NAME: TEXAS I.D. NO IN CASE OF EI EMERGENCY). MERGENC			TER (2)		
R T E R S	18. TRANSPORTER (1): Acknowledgment PRINTED/TYPED NAME SIGNATURE	/	t of material 64 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6	19. TRANSP PRINTED/TYP	ORTER ED NAME		cknowl		DATE	naterial
D F	Lea Land, LLC			Marker 64,	U.S. Hv	-		PHONE:		7-4048
I A S C P I	PERMIT NO. WM-01-035 - New Me	exico		20. COMMENTS		,				
O L S I A T	21.DISPOSAL FACILITY'S CERTIFI facility is authorized and permitted to receive such		N: I Hereby ce	rtify that the abov	e described	d wastes	were d	elivered to the	nis facility,	that the
LY	AUTHORIZED SIGNATURE	000	700	CELL NO.		- T	DATE 8/10	/2021	TI	2.40

Released to Imaging 1/18/2022 10:35:39 AM

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

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

LEA LAND, LLC

	ř.	
Cent	YL	10
	7	1

NON	N-HAZARDOUS WASTE MANII	FEST	NO 1	5240	1. P	AGE(OF	2. TRAIL	LER NO.	04
G	3. COMPANY NAME E.O.G. Resources	105 Sc	RESS Juith 4th S				8/10/ 2	UP DATE		
E	PHONE NO. (575) 748-1471	CITY Artesia	1	STATE NM	882	100	6. TNR	CC I.D. NO).	
E	7. NAME OR DESCRIPTION OF WASTE SHIPP	PED:			8. CON No.	NTAINEI Type		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	Non-Regulated, Non Hazardous Was	ite			1	СМ		4	7 19	
E	b. c.									
R	WT: 24/40	-				H	t		7	
A	12. COMMENTS OR SPECIAL INSTRUCTIONS PAN AM PARDUE AIZ FEDERAL # 1					/ 	13.	WASTE P	ROFILE N	O.
Т	14. IN C. NAME JOE ONTIVEROS	PHON		ENCY OR SPI	LL, CO	NTAC	T	24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, a international and national government regulations, is	and labeled,	and are in a	l respects in proper of	condition :	for transp	ort by h	ighway acc	cording to a	pplicable
R	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE			SIGNATURE						DATE
T R A N S P	NAME: CCI NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS GAVALDON (432) 741-2509									
R T E R S	PRINTED/TYPED NAME TOHAN S SIGNATURE		2-12	19. TRANSPO PRINTED/TYPE D21 SIGNATURE	ORTER		knowled		receipt of m	naterial
D F	Lea Land, LLC	ADDI	RESS:	Marker 64, U				PHONE:		7-4048
I A S C P I O L	PERMIT NO. WM-01-035 - New Me	exico		20. COMMENTS						
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		I: I Hereby	ertify that the above	described	d wastes	were del	ivered to the	his facility,	that the
LY	AUTIORIZED SIGNATURE	240	Λ.	CELL NO.	_	D.	ATE	2024	TII	ME . 45

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

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 93852

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	93852
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	4/18/2022