District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action													
				OPERATOR Initial Report I Final Re			al Repor						
Name of Company Yates Petroleum Corp. Address 105 S 4 th St., Artesia NM 88210				Contact D									
							No. 748-4181		. ,				
racinty Na	me Hunt	APO State #	1			Pacinty Typ	e Oil Battery						
Surface Ow	ner State	}		Mineral C	Owner	State			API :	30-025-2	2713	5	
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter	Section 4	Township 21S	Range 34E	Feet from the		h/South Line	Feet from the	East/	West Line	County Lea		•	
	1	<u> </u>	La	titude		Longitud	le						
				NAT	URI	OF RELI	EASE						
Type of Rele							Release 15BO,1	0BW		Recovered 10			
Source of Re	lease Heate	r Treater valve	e malfunc	tion		Date and H	lour of 20900 02-03-05		Date and 1500hrs 0	Hour of Dis	covery	,	
Was Immedia	ate Notice C	Given?				If YES, To			1 13001118	12-03-03			
			Yes 🗷	No 🗌 Not Re	quired								
By Whom?						Date and Hour							
Was a Water	course Reac		Yes 🗵	No		If YES, Volume Impacting the Watercourse.							
RECEIVED By Olivia Yu at 10:09 am, Dec 11, 2017 Describe Cause of Problem and Remedial Action Taken.* A malfunction of a valve on the heater treater caused oil and water to run in the ditch along SR 176, for 300', in a path 12" wide.													
Describe Area Affected and Cleanup Action Taken.* The valve was repaired, and a vacuum truck picked up ther free fluid, the area will be treated with Micro-Blaze till it meets OCD standards. Ranking of the area is- Depth to water, -0, Wellhead protection area-0, distance to surface water-0.													
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.													
							OIL CONS	SERV	ATION	DIVISIO	N		
Signature:					Approved by								
Printed Name: Daniel W. Dolan CWC													
Title: Enviro						Approval Date	12/11/20	17 ₁	Expiration I	Date:			
E-mail Addres	ss: ddolan@	урспт.com				Conditions of	Approval:		_	Attached		•	
Date: 02-04-05 Phone: 748-4181 Attach Additional Sheets If Necessary				see atta	ached direc	tive							
Anach Additi	onai Sneet	is ii necessa	ıy			1RP-4891	1 nO	Y173	453705	4			

pOY1734537399

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _12/11/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4891__ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _1/11/2018_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Mexico Page 4 of 383

Incident ID	
District RP	1RP-4891
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?	>100 (ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?					
Are the lateral extents of the release within a 100-year floodplain?					
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.

Incident ID	
District RP	1RP-4891
Facility ID	
Application ID	

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: James Kennedy	Title: Environmental Specialist				
Signature: James F Kennedy email: james_kennedy@eogresources.com	Date:04/05/2023 Telephone:432-848-9146				
OCD Only					
Received by: Jocelyn Harimon	Date: 06/30/2023				

Page 6 of 383

Incident ID	NOY1734537054
District RP	1RP-4891
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	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-	nfirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.					
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: James Kennedy	Title: Environmental Specialist				
Signature: Date: 04/05/2023					
email: james_kennedy@eogresources.com Telephone: 432-848-9146					
OCD Only					
Received by: Jocelyn Harimon	Date:06/30/2023				
☐ Approved with Attached Conditions of	Approval				
Signature:	Date:				

Page 7 of 383

Incident ID NOY1734537054

District RP 1RP-4891

Facility ID Application ID

Closure

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

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

✓ A scaled site and sampling diagram as described in 19.15.29.11 NMAC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
✓ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
Description of remediation activities					
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in				
Printed Name: James Kennedy Title: Environmental Specialist					
Signature:					
email: james_kennedy@eogresources.com Telephone: 432-848-9146					
OCD Only					
Received by: Jocelyn Harimon	Date: <u>06/30/2023</u>				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by:	Date: <u>06/30/2023</u>				
Printed Name: Jocelyn Harimon	Title: Environmental Specialist				

District I 1625 N. Franch Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, 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-141 Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

side of form Release Notification and Corrective Action Accepted as initial only **OPERATOR** Initial Report Final Report Name of Company OGRID Number Contact Yates Petroleum Corporation 25575 Robert Asher Address Telephone No. 104 S. 4TH Street 575-748-1471 Facility Name API Number Facility Type Hunt APO State #1 30-025-27135 Battery Surface Owner Mineral Owner Lease No. State State L-5012 LOCATION OF RELEASE Unit Letter Feet from the Feet from the East/West Line Section Township Range North/South Line County L 34E 2310 4 21S South 660 West Lea Latitude 32.50675 Longitude 103.48073 NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Produced water 20 B/PW 0 B/PW Source of Release Date and Hour of Occurrence Date and Hour of Discovery Water Leg 6/17/2013; AM 6/17/2013; AM Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required RECEIVED N/A By Whom? By Olivia Yu at 10:49 am, Dec 11, 2017 Date and Hour N/A N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.'* Describe Cause of Problem and Remedial Action Taken.* Water leg on gun barrel broke causing release. Well/valves shut in. Crew called to make repairs on water leg. Describe Area Affected and Cleanup Action Taken.* An approximate area of 40' X 5', all inside bermed battery. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides in soils for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. Depth to Ground Water: 50-99' (approx. 95', Section 4, T21S-R34E per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10. Based on enclosed analytical results, Yates Petroleum Corporation requests closure. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. OIL CONSERVATION DIVISION Signature: Approved by Printed Name: Robert Asher 12/11/2017 Title: NM Environmental Regulatory Supervisor Approval Date: **Expiration Date:** E-mail Address: boba@yatespetroleum.com Conditions of Approval: Attached \ see attached directive

nOY1734539130

Phone: 575-748-4217

Date: Thursday, September 05, 2013

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _12/11/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4892__ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abbility and submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _1/11/2018_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us of New Mexico

Incident ID	
District RP	1RP-4892
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?	>100 (ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?					
Are the lateral extents of the release within a 100-year floodplain?					
Did the release impact areas not on an exploration, development, production, or storage site?					
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.

Received by OCD: 6/6/2023 2:07:22 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

		Page 12 of 383	3
Incident ID			
District RP	1RP-4892		
Facility ID			
Application ID			

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: James Kennedy	Title: Environmental Specialist				
Signature: James F Kennedy email: james_kennedy@eogresources.com	Date:04/05/2023 Telephone: 432-848-9146				
OCD Only Received by:	Date:				

tate of New Mexico

Incident ID	
District RP	1RP-4892
Facility ID	
Application ID	

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 point □ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.1 □ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
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.	oduction 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	, 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: James Kennedy	Title: Environmental Specialist
Signature: James F Kennedy	Date: <u>04/05/2023</u>
email: james_kennedy@eogresources.com	Telephone: 432-848-9146
OCD Only	
<u>ocb only</u>	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

Page 14 of 383

Incident ID	
District RP	1RP-4892
Facility ID	
Application ID	

Closure

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

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

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose at their operations have failed to adequately investigate and remediate contamination that pose at their operations have failed to adequately investigate and remediate contamination that pose at how substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: James Kennedy	✓ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: James Kennedy Title: Environmental Specialist Od/105/2023 Telephone: 432-848-9146 OCD Only Received by: Date: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Date: Date: Date: Date:		s of the liner integrity if applicable (Note: appropriate OCD District office
Thereby 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 by the OCD does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: James Kennedy Title: Environmental Specialist Od/05/2023 Title: Date:	☐ Laboratory analyses of final sampling (Note: appropriate ODe	C District office must be notified 2 days prior to final sampling)
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: James Kennedy Title: Environmental Specialist Od/05/2023 Telephone: 432-848-9146 OCD Only Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Da	Description of remediation activities	
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: James Kennedy Title: Environmental Specialist Od/05/2023 Telephone: 432-848-9146 OCD Only Received by: Date: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Da		
Signature:	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 rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including	in release notifications and perform corrective actions for releases which f a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
OCD Only Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	Printed Name: James Kennedy	Title: Environmental Specialist
OCD Only Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	Signature: James F Kennedy	Date:04/05/2023
Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	email: james_kennedy@eogresources.com	Telephone: 432-848-9146
Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	OCD Only	
remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	Received by:	Date:
	remediate contamination that poses a threat to groundwater, surface	water, human health, or the environment nor does not relieve the responsible
Printed Name: Title:	Closure Approved by:	Date:
	Printed Name:	Title:

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



Our ref: 11224665

April 05, 2023

New Mexico Oil Conservation Division District 1 1625 N. French Drive Hobbs. New Mexico 88240

Re: Site Closure Report Hunt APO State #1 Release Site

EOG Resources Inc. Incident ID: 1RP-4891/4892

L-4-21S-34E, Lea County, New Mexico

To Whom It May Concern:

1. Introduction

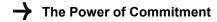
GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 1 Office. This Report provides documentation of assessment and remedial activities conducted at the Hunt APO State #1 Release Site (Site). The Site is located in Unit Letter L Section 4 of Township 21 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.50675 N latitude and 103.48073 W longitude. The release occurred on public land owned by the U.S. Bureau of Land Management (BLM). Figure 1 depicts the Site location; Site details are depicted on Figure 2 and Figure 3.

2. Background Information

2.1 1RP-4891

On February 3, 2005, a valve on the heater treater malfunctioned causing the release of approximately twenty-five (25) barrels (bbls) of oil and ten (10) bbls of produced water. Approximately ten (ten) bbls of oil was recovered via vacuum truck. The release impacted the New Mexico State Highway 176 right-of-way. A C-141 Form was submitted to the NMOCD on February 4, 2005. An Assessment Summary Report dated November 13, 2017, was submitted to the NMOCD summarizing the results of the 2005 release at the Site. After submission of the GHD Assessment report, the NMOCD assigned RP number 4891 to this portion of the release at the Site.

The Release Notification, Site Assessment/Characterization, Remediation, and Closure portions of Form C-141 are attached to the front of this report.



2.2 1RP-4892

A second release of approximately twenty (20) bbls of produced water were released within the west end of the bermed battery area at the Site due to a water leg break on the gun barrel. None of the released fluids were recovered. The release was discovered on June 17, 2013, and a C-141 was submitted to the NMOCD on June 27, 2013. After submission of the GHD Assessment report, the NMOCD assigned RP number 4892 to this portion of the release at the site.

The Release Notification, Site Assessment/Characterization, Remediation, and Closure portions of Form C-141 are attached to the front of this report.

3. Groundwater and Site Characterization

Initial characterization for the Site was conducted using the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases, August 13, 1993. The Site was preliminarily ranked with a total score of 10 (see table below).

Table 3.1 NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993)

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (50-99 feet bgs)	10
Wellhead protection Area (>1,000 feet from water source, >200 feet from domestic source)	0
Distance to Surface Body Water (200-1,000 feet)	0
Ranking Criteria Total Score	10*
*Because the ranking criteria total score is 10, NMOCD established RRALs are 10 mg/kg for benz BTEX, 1,000 mg/kg for TPH¹, and 600 mg/kg for chlorides.	ene, 50 mg/kg for total

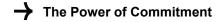
GHD recharacterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area of low karst potential. No receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. The Site characterization documentation (Karst Potential, Point of Diversion, Well Log, USGS Gauging Site, Significant Watercourse, Wetlands, and FEMA maps) are provided in Attachment A.

To determine depth to water (DTW) at the Site, GHD and Harrison and Cooper, Inc. (HCI) installed a DTW boring on May 17, 2022; SB-1. The boring was installed to a total depth of approximately 105 feet bgs. The boring was left open for seventy-two (72) hours and gauged with a DTW meter on May 25, 2022, no water was detected in the boring. The boring log is included as Attachment B. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (feet)
No Receptors Found	>100



TPH Regulatory Chloride **BTEX** Benzene (GRO+DRO+MRO) (GRO+MRO) Standard (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) 19.15.29.13 Restoration. Reclamation and Re-600 100 50 10 Vegetation (Impacted Area 0-4 Feet) 19.15.29.12 NMAC Table I Closure Criteria for Soils 20,000 2,500 1,000 50 10 Impacted by a Release Notes: --- = not defined

Table 3.2 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Initial Assessment Summary 4.

4.1 1RP-4891

After the initial three test pits in the RP-4891 release area were dug in October 2017, GHD returned to the Site and excavated additional test pits in December 2017 and again in February 2018. Fifteen (15) test pits were excavated ranging from two (2) to three (3) feet below ground surface (bgs) with one location, TP-11, extending to a total depth of twenty (20) feet bgs. The excavations generally encountered a very hard caliche at two (2) feet bgs. Soils were field screened for chlorides using a HACH test kit. Selected confirmation samples were submitted to Hall Environmental Analysis Laboratory (HEAL) for analysis of benzene, toluene, xylenes and ethylbenzene (BTEX) by EPA Method 8021, for total petroleum hydrocarbons (TPH) by EPA Method 8015 and for chloride by EPA Method 300. Sample results are summarized on Table 1. Sample Locations are depicted on Figure 2.

On January 9, 2018, GHD submitted to the Ms. Olivia Yu, NMOCD District 1, results of the delineation of the release area along with a remediation plan to excavate the area to a depth of four (4) feet bgs and line the excavation with a 20-milliliter (mil) plastic liner. On January 29 and 30, 2018, respectively, Mark Naranjo, NMSLO, and Olivia Yu, NMOCD, declared delineation of the RP-4891 area complete and approved the proposed plan for remediation; NMOCD correspondence is included as Attachment D.

With the submission of additional sidewall samples collected during the excavation and liner placement process, based on on-Site observations witnessed by Olivia Yu with the NMOCD, permission to backfill the approximately 120 x 40 square feet excavation was granted by NMOCD on February 28, 2018; NMOCD correspondence is included as Attachment D. Because of the extreme difficulty excavating the hard caliche in the eastern portion of the RP-4891 release area, NMOCD allowed a two (2) feet bgs excavation in this area, depicted on Figure 2, so long as the liner was placed before backfilling. Photographs of the liner placement and backfilling are included in the photographic log included as Attachment E. The RP-4891 release area of the Site is therefore considered closed as per NMOCD communications. A Form C-141 Final along with required submission fee will be submitted for RP-4891 with this assessment/closure request report.

4.2 1RP-4892

Initial hand auger borings and test pits inside the tank battery were dug in October and December 2017. TP-8, TP-9 and TP-10 were excavated to 4 ft. bgs and sampled for BTEX, TPH and chloride. TP-8 and TP-10

→ The Power of Commitment

encountered TPH concentrations in excess of initial clean-up standards. The chloride concentration in TP-10 at 2 ft. bgs was also above the 600 mg/kg chloride clean-up level initially established for the Site.

In May 2018, GHD and the EOG contractor continued assessment activities on the 2013 release inside the tank battery berm. Steel lines and old equipment were removed from the area prior to excavation. The excavation was dug to a depth of 4ft below the Site pad height or approximately 2 ft. below surrounding undisturbed elevation. Excavation at this western extent of the battery was halted when overhead power lines and a buried 6-inch water line were encountered. In addition, access to lands outside of the battery needed to be secured.

Activity outside of the battery to the west of the initial 1RP-4892 excavation resumed in April 2019. The west wall of the tank battery berm was removed to enable the continuation of assessment of impacts in this direction. Attempt was made to excavate horizontally until sidewall concentrations were below 600 mg/kg. This was accomplished on the western sidewall, SW-1 (403 mg/kg) and the standard substantially met on the southern sidewall, SW-2 (607 mg/kg). Further delineation to the north was not possible due to a live waterline that serves the battery. The north sidewall sample SW-3, obtained at the termination of delineation in this direction, had a chloride concentration of 5760 mg/kg. The resulting excavation included an area with approximate dimensions of 50 ft. x 25 ft. x 4 ft. bgs. This portion of the 1RP-4892 release was deemed as delineated as possible and further exploration past the northern boundary would need to be deferred.

Because the western portion of the excavation was on private land, and to minimize potential liabilities of an incomplete tank battery berm and an open excavation next to the highway, the excavation was backfilled in May 2019. Prior to backfilling, a 20-mil plastic liner was placed in the entire excavation reaching from the portion inside the tank battery to the western edge on private land. The excavation was then backfilled with clean fill with topsoil added on the private portion. The tank battery berm was reconstructed, and fence lines rebuilt.

Further Soil Delineation Assessment Summary and 5. **Findings**

To further delineate areas within (previously deferred) and to the north and east of the bermed area, GHD and EOG's contractor SDR Enterprises, LLC (SDR), returned to the Site. On November 12, 2021, fourteen (14) test pits were installed (TP19 through TP32), ranging in depth from two (2) to three (3) feet bgs. GHD collected nineteen (19) soil samples from various depths from the test pits. GHD also installed three (3) hand auger borings within the bermed area to a depth of one (1) foot bgs and collected samples (HA-1 through HA-3). All samples were submitted to Eurofins Environment Testing America (Eurofins) in Carlsbad, New Mexico for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated eleven (11) of the samples exhibited chloride concentrations above the Table I Restoration, Reclamation, and Re-Vegetation Closure Criteria of 600 mg/kg in the top four (4) feet: HA-1, HA-2, TP19-3, TP22-2, TP23-S, TP24-2, TP25-2, TP26-2, TP27-S, TP28-2, and TP30-S. None of the other hand auger or test pit samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Analytical results are summarized in Table 1 and in the laboratory analytical reports included in Attachment C. Sample locations are shown on Figure 2.

→ The Power of Commitment

Remedial Excavation, Waste Management, and 6. **Confirmation Soil Sampling**

Within Berm Excavation:

Remedial excavation activities were conducted by SDR with oversight being provided by GHD from April 7 through April 12, 2022. Excavation depths ranged from three (3) to four (4) feet bgs.

On April 7, 2022, SDR advanced a test pit in the area where the previous TP-8 was installed in 2017 to assess TPH impacts previously left in place during 2019 excavation activities. The liner placed at four (4) feet bgs during the previous excavation was peeled back and a sample was collected below the liner at approximately 4.3 feet bgs, a two (2) feet bgs sample was also collected. Test pit soil samples were submitted to Eurofins in Carlsbad, New Mexico, for analysis of BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. The test pit sample results were not reported until the end of excavation activities at the Site; therefore, to ensure all affected soils were removed, the area around TP-8 was excavated down to the liner and composite confirmation samples collected (sample IDs with an "8" prefix were collected from this smaller excavation).

From April 7 to April 12, 2022, GHD collected 18 (eighteen) bottom hole (BH-1 through BH-17 and 8 BH-1) and five (5) sidewall (SW-1 through SW-3, 8 SW-1, and 8 SW-2) composite confirmation samples. Also, as previously mentioned, two test pit samples were collected (TP-8-2 and TP8-4). Composite confirmation samples collected represented areas no greater than 200 square feet. All soil samples were submitted to Eurofins in Carlsbad, New Mexico, for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated one (1) of the confirmation samples contained chloride concentrations that were above Table I Restoration, Reclamation, and Re-Vegetation Closure Criteria of 600 mg/kg in the top four (4) feet: BH-4. None of the other confirmation or test pit samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria.

Due to the bottom hole sample exhibiting chloride concentrations above Table I Closure Criteria, GHD and SDR returned to the site on April 14, 2022, to further excavate the affected area and resample. The area around BH-4 was deepened from three (3) to four (4) feet bgs and resampled (BH-4A). The soil sample was submitted to Eurofins in Carlsbad, New Mexico, for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated the sample did not exhibit benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Figure 3 depicts the locations of the composite confirmation samples. Analytical results are provided in Table 2 and in the Laboratory Analytical Reports provided in Attachment C.

Outside of Berm Excavation:

GHD and SDR returned to the Site in October 2022, to address affected soils outside of the berm. Remedial excavation activities were conducted from October 25, 2022 through January 10, 2023. Excavation depths ranged from two (2) to four (4) feet bgs.

On October 25, 2022, GHD collected 25 (twenty-five) bottom hole (BH-1 through BH-25) and eight (8) sidewall (SW-2A, SW-3A, and SW-4 through SW-9) composite confirmation samples. Sidewall samples SW-2A and SW-3A were taken from previous sidewall locations SW-2 and SW-3, collected during 2019 excavation

→ The Power of Commitment

activities to address chloride exceedances. Composite confirmation samples collected represented areas no greater than 200 square feet. All samples were submitted to HEAL in Albuquerque, New Mexico, for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated seventeen (17) of the confirmation samples exhibited chloride concentrations above Table I Restoration, Reclamation, and Re-Vegetation Closure Criteria of 600 mg/kg in the top four (4) feet: BH-2, BH-3, BH-4, BH-5, BH-7, BH-8, BH-9, BH-10, BH-11, BH-12, BH-15, BH-16, BH-24, SW-5, SW-7, SW-8, and SW-9. Confirmation samples BH-9 and BH-10 also exhibited TPH concentrations above Table I Closure Criteria.

Due to samples exhibiting chloride and/or TPH concentrations over Table I Closure Criteria, GHD and SDR returned to the Site on November 11, 2022, to further excavate the affected areas and resample. The areas around BH-2, BH-7 through BH-12, and BH-24 were deepened from two (2) to three (3) feet bgs and resampled (BH-2A, BH-7A through BH-12A, and BH-24A). The areas around BH-3 through BH-5, BH-15, and BH-16 were deepened from three (3) to four (4) feet bgs and resampled (BH-3A through BH-5A, BH-15A, and BH-16A). The sidewalls where samples SW-5 and SW-7 through SW-9 were collected were further excavated and resampled (SW-5A and SW-7A through SW-9A). The soil samples were submitted to HEAL in Albuquerque, New Mexico, for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated eight (8) of the confirmation samples exhibited chloride concentrations above Table I Closure Criteria: BH-2A, BH-7A through BH-12A, and BH-24A.

Due to samples exhibiting chloride and/or TPH concentrations over Table I Closure Criteria, GHD and SDR returned to the Site on December 15, 2022, and January 10, 2023, to further excavate the affected areas, resample, and collect additional samples as needed. The areas around BH-2A, BH-7A through BH-12A, and BH-24A were deepened from three (3) to four (4) feet bgs and resampled (BH-3B through BH-5B, BH-15B, and BH-16B). Due to further excavating sidewalls, three (3) additional bottom hole composite confirmation samples were collected (BH-26 through BH-28). The soil samples were submitted to HEAL in Albuquerque, New Mexico, for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated none of the samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Figure 3 depicts the locations of the composite confirmation samples. Analytical results are provided in Table 3 and in the Laboratory Analytical Reports provided in Attachment C.

Waste Management Activities:

Waste management activities were performed in coordination with EOG directives. GHD 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 1,735.37 tons of impacted soils were removed from the remedial excavation and disposed of. The approved C-138 and waste manifests are available upon request but are not attached due to the size of the file. A summary of soil disposal is included in Table 4. A photographic log is included as Attachment E. Sampling notifications are included in Attachment D.

7. 1RP-4891/4892 Closure Request

The excavation was backfilled with non-impacted soil, with the upper four (4) feet consisting entirely of soils imported to the Site from a locally sourced topsoil pit. Site characterization, soil delineation, and remediation activities for Incidents 1RP-4891/4892 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 of 1RP-4891/4892.

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

Sincerely,

GHD

Nate Reece

Environmental Scientist

Make June

JT Murrey

Senior Project Manager

NR/jt/1

Encl. Figure 1 – Site Location Map

Figure 2 – Assessment Sampling Locations Map

Figure 3 – Confirmation Sampling Locations Map

Table 1 – Summary of Soil Analytical Data – 2017 through 2021

Table 2 – Summary of Soil Analytical Data – Within Berm Excavation

Table 3 – Summary of Soil Analytical Data – Outside of Berm Excavation

Table 4 – Soil Disposal Summary

Attachment A - Site Characterization Documentation

Attachment B - Soil Boring Log

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

Attachment D - NMOCD Correspondence

Attachment E - Photographic Log

cc: James Kennedy, EOG Resources

Tables

Table 1 Summary of Soil Analytical Data - 2017 through 2021 Hunt APO State #1 EOG Resources Lea County, New Mexico

											Т	РН		
Loc	ation ID	Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	ВТЕХ	GRO (C6-C10)	DRO (>C10-C28)	MRO (>C28-C35)	Total GRO/DRO/M RO	Chloride
							19.15.29 NMAC	- Table I Clo	osure Criteria	for Soils<50	feet Depth to	Groundwate	r	
					10				50	-	-		100	600
				T T		Test F	Pit Samples				ı		T T	
	TP-1	S-088210-53-100217-MG-TP-1-2	10/2/2017	2	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	230	500	730	3,500
	TP-2	S-088210-53-100217-MG-TP-2-2	10/2/2017	2	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	180	450	630	3,700
	TP-3	S-088210-53-100217-MG-TP-3-2	10/2/2017	2	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	110	230	340	2,000
	TP-4	S-088210-53-121817-SP-TP-4-2	12/18/2017	2	<0.021	<0.042	<0.042	<0.085	<0.172	<4.2	<9.7	<48	<61.9	220
	TP-5	S-088210-53-121817-SP-TP-5-2	12/18/2017	2	<0.020	<0.041	<0.041	<0.082	<0.184	<4.1	130	160	290	730
	TP-6	S-088210-53-121817-SP-TP-6-2	12/18/2017	2	<0.020	<0.039	<0.039	<0.079	<0.177	<3.9	220	630	850	520
	TP-7	S-088210-53-121817-SP-TP-7-2	12/18/2017	2	<0.021	<0.043	<0.043	<0.085	<0.192	<4.3	<9.4	<47	<60.7	800
RP-4891	TP-11	S-088210-53-121817-SP-TP-11-14	12/19/2017	14	<0.020	<0.041	<0.041	<0.081	<0.183	<4.1	<9.6	<48	<61.7	1,200
RP.	11 -11	S-088210-53-121817-SP-TP-11-16	12/19/2017	16	<0.019	<0.038	<0.038	<0.076	<0.171	<3.8	<9.5	<47	<60.3	840
	TP-12	S-088210-53-122017-SP-TP-12-2	12/20/2017	2	NA	NA	NA	NA	NA	<5.0	<10	<50	<65	1,200
	TP-13	S-088210-53-122017-SP-TP-13-2	12/20/2017	2	NA	NA	NA	NA	NA	<4.9	<9.5	<48	<62.4	350
	TP-14	S-088210-53-022118-MG-TP-14	2/21/2018	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	840
	TP-15	S-088210-53-022118-MG-TP-15	2/21/2018	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,700
	TP-16	S-088210-53-022118-MG-TP-16	2/21/2018	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	500
	TP-17	S-088210-53-022118-MG-TP-17	2/21/2018	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,500
	TP-18	S-088210-53-022318-MG-TP-18-2	2/23/2018	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,400
	TP-1	S-088210-53-050918-MG-TP-1-2	5/9/2018	2	<0.024	<0.049	<0.049	<0.098	<0.22	<10	<50	<4.9	<64.9	89
	IP-I	S-088210-53-050918-MG-TP-1-4	5/9/2018	4	<0.024	<0.049	<0.049	<0.098	<0.22	<10	18	<4.9	18	130
	TP-2	S-088210-53-050918-MG-TP-2-2	5/10/2018	2	<0.025	<0.049	<0.049	<0.098	<0.23	<9.9	<50	<4.9	<63.8	94
892	TP-3	S-088210-53-050918-MG-TP-3-2	5/10/2018	2	<0.024	<0.049	<0.049	<0.096	<0.20	<10	<50	<4.8	<64.8	400
RP-4892	TP-4	S-088210-53-050918-MG-TP-4-2	5/10/2018	2	<0.024	<0.049	<0.049	<0.096	<0.20	<10	<50	<4.8	<64.8	790
	TP-5	S-088210-53-050918-MG-TP-5-2	5/25/2018	2	<0.025	<0.049	<0.049	<0.099	<0.22	<9.9	<50	<4.9	<63.8	2,700
	TP-6	S-088210-53-050918-MG-TP-6-2	5/25/2018	2	<0.025	<0.049	<0.049	<0.098	<0.23	<10	<50	<4.9	<64.9	2,000
	TP-7	S-088210-53-050918-MG-TP-7-1	5/25/2018	1	<0.024	<0.048	<0.048	<0.097	<0.21	<9.8	<49	<4.8	<63.6	3,300

Table 1 Summary of Soil Analytical Data - 2017 through 2021 Hunt APO State #1 EOG Resources Lea County, New Mexico

							19.15.29 NMAC - Table I Closure Criteria for Soils<50 feet Depth to Groundy				РН			
Loc	ation ID	Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	втех			MRO (>C28-C35)	Total GRO/DRO/M RO	Chloride
							19.15.29 NMAC	- Table I Cl	osure Criteria	a for Soils<50	feet Depth to	Groundwate	r	
					10					-	-		100	600
		S-088210-53-050918-MG-TP-8-1	5/25/2018	1	<0.024	<0.048	<0.048	<0.097	<0.21	<10	<50	<4.8	<64.8	5,700
	TP-8	S-088210-53-121817-SP-TP-8-2	12/18/2017	2	<0.020	<0.039	<0.039	<0.079	<0.177	5.6	3400	3100	6,506	120
392		S-088210-53-121817-SP-TP-8-4	12/18/2017	4	<0.017	<0.033	<0.033	<0.067	<0.150	200	3100	2300	5,600	120
RP-4892	TP-9	S-088210-53-121817-SP-TP-9-2	12/18/2017	2	<0.018	<0.036	<0.036	<0.073	<0.163	<3.6	<9.3	<46	<58.9	65
~	11 0	S-088210-53-121817-SP-TP-9-4	12/18/2017	4	<0.018	<0.036	<0.036	<0.072	<0.162	<3.6	<9.3	<46	<58.9	370
	TP-10	S-088210-53-121817-SP-TP-10-2	12/18/2017	2	<0.016	<0.032	<0.032	<0.064	<0.144	24	380	190	594	460
	17-10	S-088210-53-121817-SP-TP-10-4	12/18/2017	4	<0.072	0.81	2.5	5.3	8.6	380	1900	840	3,120	1,000
						Excavation	n Soil Samples							
	B-1	S-088210-53-041519-MM-B-1-4	4/15/2019	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,340
	SW-1	S-088210-53-041619-MM-SW-1-2	4/16/2019	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	403
892	SW-2	S-088210-53-041819-MM-SW-2-2	4/18/2019	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	607
RP-4892	SW-3	S-088210-53-041819-MM-SW-3-2	4/18/2019	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,760
	SW-4	S-088210-53-041819-MM-SW-4-2	4/18/2019	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,250
	B-2	S-088210-53-041819-MM-B-2-4	4/18/2019	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,440
						Additional Ass	sessment Samp	les						
	HA-1	HA-1	11/12/2021	1	0.000419 J	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	134 B	51.1	185	11.3
	HA-2	HA-2	11/12/2021	1	0.000895 JB	0.000566 J	<0.00198	0.00252	0.00398	<49.9	52.4 B	<49.9	52.4	1,580
	HA-3	HA-3	11/12/2021	1	<0.00199	0.00150 J	<0.00199	0.00211 J	0.00361 J	<49.8	58.7 B	<49.8	58.7	211
-	P19-3	TP19-3	11/12/2021	3	0.000610 J	0.000657 J	<0.00201	<0.00402	0.00179 J	<49.9	22.0 J	<49.9	22.0 J	1,280
	P20-2	TP20-2	11/12/2021	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	25.3 J	16.0 J	18.1 J	59.4	336
	P21-2	TP21-2	11/12/2021	2	<0.00200	<0.00200	0.000953 J	<0.00401	0.00153 J	16.2 J	21.1 J	15.6 J	52.9	299
	P22-2	TP22-2	11/12/2021	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50	17.8 J	15.9 J	33.7 J	1,170
	TD00	TP23-S	11/12/2021	0-0.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	15.7 J	15.7 J	794
	TP23	TP23-2	11/12/2021	2	<0.00200	0.00101 J	0.00645	0.00166 J	0.00912	<49.8 *1	21.7 JB	<49.8	21.7 J	513
	P24-2	TP24-2	11/12/2021	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	24.1 J*1	23.1 JB	<49.9	47.2 J	1,310
	P25-2	TP25-2	11/12/2021	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8 *1	18.9 JB	<49.8	18.9 J	1,240

Page 3 of 3

Table 1 Summary of Soil Analytical Data - 2017 through 2021 Hunt APO State #1 EOG Resources Lea County, New Mexico

										7	PH		
Location ID	Sample ID	Sample Date	Depth (feet bgs)	Benzene	Benzene Toluene Et	Ethylbenzene	Xylenes	втех	GRO (C6-C10)	DRO (>C10-C28)	MRO (>C28-C35)	Total GRO/DRO/M RO	Chloride
						19.15.29 NMAC	C - Table I Clo	osure Criteria	a for Soils<50	feet Depth to	Groundwate	r	
				10				50	-	-		100	600
TP26-2	TP26-2	11/12/2021	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9 *1	22.3 JB	<49.9	22.3 J	1,230
TD27	TP27-S	11/12/2021	0-0.5	<0.00198	0.000453 J	<0.00198	<0.00397	<0.00397	16.5 J*1	21.5 JB	<50	38.0 J	725
TP27	TP27-2	11/12/2021	2	0.00115 J	0.00234	0.000637 J	0.00301 J	0.00714	17.1 J*1	20.1 JB	<49.9	37.2 J	541
TP28-2	TP28-2	11/12/2021	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50 *1	22.8 JB	<50	22.8 J	862
TP29-S	TP29-S	11/12/2021	0-0.5	0.000799 J	<0.00199	<0.00199	<0.00398	<0.00398	<49.9 *1	23.1 JB	<49.9	23.1 J	65.1
1729-3	TP29-2	11/12/2021	2	<0.00199	0.000723 J	<0.00199	<0.00398	<0.00398	<50.0 *1	24.2 JB	<50.0	24.2 J	52.4
TP30-S	TP30-S	11/12/2021	0-0.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8 *1	30.4 JB	<49.8	30.4 J	761
1730-3	TP30-2	11/12/2021	2	<0.00201	<0.00201	0.000607 J	<0.00402	<0.00402	<49.9 *1	113 B	<49.9	113	441
TD24 C	TP31-S	11/12/2021	0-0.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9 *1	27.5 JB	<49.9	27.5 J	347
TP31-S	TP31-2	11/12/2021	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9 *1	27.6 JB	<49.9	27.6 J	255
TP32-2	TP32-2	11/12/2021	2	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.8 *1	27.2 JB	<49.8	27.2 J	31.7

Notes:

- 1. Concentrations and Closure Criteria reported in mg/kg
- 2. < Value Less than Reporting Limit (RL)
- 3. Bold Indicates Analyte Detected
- 4. BTEX analyses by EPA Method SW-846 8021B
- 5. TPH analyses by EPA SW-846 Method 8015 Modified
- 6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for Soils Impacted by a Release.
- 8. J Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.
- 9. *1 LCS/LCSD RPD exceeds control limits
- 10. B Compound was found in the blank and sample
- 11. feet bgs feet below ground surface
- 12. --- No closure criteria listed in NMAC 19.15.29.12 Table I Closure Criteria for Soils Impacted by a Release
- 13. Samples collected prior to November 2021 were evaluated to NMOCD Recommended Remediation Action Levels of 10 mg/kg for Benzene, 50 mg/kg for BTEX, 1,000 mg/kg for Total TPH, and 600 mg/kg for Chloride.

Table 2 Summary of Soil Analytical Data - Within Berm Excavation Hunt APO State #1 EOG Resources Lea County, New Mexico

								7				
Sample ID	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Gampie 12	Date	(ft bgs)			Table I C	losure Criteria	for Soils <50 fe	et Depth to Gro	undwater 19.15.	.29 NMAC		
			10				50				100	600
	'	ı	'	<u> </u>	Test Pit As	ssessment Sam	ples	ı			'	
TP8-2*	4/7/22	2	0.000829	0.00261	<0.000564	<0.00101	0.00344	<14.9	<14.9	<14.9	<14.9	48.4
TP8-4*	4/7/22	4.3	0.000975	0.00466	<0.000563	<0.00101	0.00564	<14.9	<14.9	<14.9	<14.9	33.9
					Bottom Hole	Confirmation S	amples					
8 BH-1	4/12/22	4	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	36.0	<15.0	36.0	487
BH-1	4/7/22	3	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	486
BH-2	4/7/22	3	0.000466	0.00126	<0.000567	<0.00101	0.00173	<15.0	<15.0	<15.0	<15.0	198
BH-3	4/8/22	3	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	514
BH-4	4/8/22	*	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	₹15.0	21.1	≥15.0	21.1	661
BH4A	4/14/22	4	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	23.5	20.4	<15	43.9	499
BH-5	4/11/22	3.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	19.8	<15.0	19.8	345
BH-6	4/11/22	3.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.0	25.6	<15.0	25.6	498
BH-7	4/11/22	3.5	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	21.7	<15.0	21.7	41.9
BH-8	4/11/22	3.5	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	21.3	<15.0	21.3	191
BH-9	4/11/22	3.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	20.9	<15.0	20.9	282
BH-10	4/11/22	4	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.0	20.6	<15.0	20.6	112
BH-11	4/11/22	4	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	21.0	<15.0	21.0	352
BH-12	4/11/22	3.5	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	20.0	20.2	<15.0	40.2	301
BH-13	4/12/22	3.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	20.7	<15.0	20.7	459
BH-14	4/12/22	3.5	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	20.3	<15.0	20.3	337
BH-15	4/12/22	3.5	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<15.0	20.7	<15.0	20.7	385
BH-16	4/12/22	3.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	20.4	<15.0	20.4	397
BH-17	4/12/22	3.5	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	21.1	<15.0	21.1	409
					Sidewall Co	onfirmation San	nples					
8 SW-1	4/12/22	Sidewall	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	21.4	<15.0	21.4	70.6
8 SW-2	4/12/22	Sidewall	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	26.3	<15.0	26.3	242
SW-1	4/7/22	Sidewall	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	433
SW-2	4/8/22	Sidewall	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<14.9	19.6	<14.9	19.6	129
SW-3	4/8/22	Sidewall	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.0	24.2	<15.0	24.2	31.0

Notes:

- Values reported in mg/kg
- 2. < = Value Less than Reporting Limit (RL)
- Bold Indicates Analyte Detected
- 4 BTEX analyses by EPA Method SW 8021B.
- 5. TPH analyses by EPA Method SW 8015 Mod.
- B-BH 2 Sample Point Excavated
- 6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
- 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
- 9. --- = not defined

Table 3 Summary of Soil Analytical Data - Outside of Berm Excavation Hunt APO State #1 EOG Resources Lea County, New Mexico

								T	otal Petroleum	Hydrocarbons (TPH)	
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	Depth (ft bgs)			Table I C	losure Criteria	for Soils >100	feet Depth to Gro	oundwater 19.1	5.29 NMAC		
	Dute	(It bgs)	10				50	1,0	00		2,500	20,000
					19	15.29.13 NMAC		and Reclamation	Criteria (0 to 4	feet)		
			10		Bottom Holo	Confirmation	50				100	600
DII 4	40/05/00		*0.025	40.040	ı	Confirmation S		-10	-4F	-10	140	440
BH-1	10/25/22 10/25/22	2	<0.025 <0.023	<0.049 <0.047	<0.049 <0.047	<0.099 <0.094	<0.099 <0.094	<4.9	<15	<49 -49	<49 	410 640
BH-2A	11/14/22		<0.025	<0.049_	<0.049	<0.000	<0.000	×4.0	18 - 18 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	·45	49	710
BH-2B	12/15/22	4	<0.013	<0.027	<0.027	<0.054	<0.054	<2.7	<15	<48	<48	290
BH-3	10/25/22	*	₹0.024	<0.027	<0.027 <0.049	<0.034	<0.034	×4.9	-15 -45	49	~40 ~49	1,190_
BH-3A	11/11/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	20	50	70	2,300
BH-9A	10/25/22	*	₹0.024	₹0.04Z	₹0.04 7	<0.000	<0.000	-4.7		47	47	1:300
BH-4A	11/11/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<12	<39	<39	2,000
BH-5	10/25/22	-	<0.025	<0.050	₹0:050	₹0.10	₹0.10	-5.0	-44	47	47	820_
BH-5A	11/11/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<48	<48	870
BH-6	10/25/22	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<14	<47	<47	440
BH-7	10/25/22	2	₹0.023	<0.046	<0.046	₹0.092	<0.092		~15_	-49	-49_	1,300
BH-7A	11/11/22	3_	<0.024	<0.048	<0.048	<0.096	<0.096	24.8	~44_	- 48	-48_	1,600
BH-7B	1/10/23	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.9	<45	<45	610
BH-8	10/25/22	2	<0.024	<0.048_	<0.048_	<0.096_	≥0.096	24.8	~44_	48	48	910_
BH-8A	11/11/22	*	<0.023	<0.046_	<0.046	<0.093	<0.093	24.6	~43_	<42	42	1,000
BH-8B	1/10/23	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.5	<42	<42	1,300
BH-9	10/25/22	2	≥0.025	<0.049	₹0:049	<0.098	≥0.098	24.0	70	140	210	1,900_
BH-9A	11/11/22	3	<0.925	<0:050	<0:950	₹0.10	₹0.40	~5.0	-13	43	43	1,600_
BH-9B	1/10/23	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.7	<43	<43	310
BH-10	10/25/22	2	<0.02 5	<0.05 0_	₹0:050	<0.09 9	≥0.099	25.0	110	170	280	1,200_
BH-10A	11/11/22	*	<0. 02 5	₹0.05 0	₹0:050	<0.099	₹0.099	₹5.0	~14	₹46	~46	1,500_
BH-10B	1/10/23	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<46	960
BH-11	10/25/22	2	<0. 02 4	<0.048	<0.048	<0.096	<0.096	24.8	~44	~46	~46	840
BH-11A	11/11/22	*	≥0.024	<0.048	≥0:048	<0.095	<0.095	24.8	~15	~50~		1,600
BH-11B	1/10/23	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.5	<43	<43	1,000
BH-12	10/25/22	2	≥0.024	≥0:049	<0:049	<0.098	<0.098	24.9	~45	~49	-49	2,400
BH-12A	11/11/22	*	<0.023	≥0:047	<0.047	<0.093	<0.093	24.7	~44	~46	~46	2,200
BH-12B	1/10/23	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<8.7	<44	<44	590
BH-13	10/25/22	3	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<14	<47	<47	520
BH-14	10/25/22	3	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	500
BH-15	10/25/22	*	₹0.023	₹0:047	₹0:047	₹0:003	≥0.003	24.7	744	-46	~46	670_
BH-15A	11/11/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	910
BH-16	10/25/22	*	₹0.024	₹0:048	₹0:048	₹0:007	≥0.007	24.8	-45-	-50_		680
BH-16A	11/11/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<15	<50	<50	900
BH-17	10/25/22	3	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<47	<47	190

Table 3 Summary of Soil Analytical Data - Outside of Berm Excavation Hunt APO State #1 EOG Resources Lea County, New Mexico

			_] [Total Petroleum Hydrocarbons (TPH)					
		- "	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride	
Sample ID	Sample Date	Depth (ft bgs)			Table I C	losure Criteria f	or Soils >100	feet Depth to Gro	oundwater 19.1	5.29 NMAC			
	24.0	(11 290)	10				50	, .	100		2,500	20,000	
					19.	15.29.13 NMAC		and Reclamation	Criteria (0 to 4	feet)			
			10				50				100	600	
BH-18	10/25/22	3	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<15	<49	<49	120	
BH-19	10/25/22	3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<14	<46	<46	60	
BH-20	10/25/22	3	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<14	<47	<47	480	
BH-21	10/25/22	3	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<48	<48	180	
BH-22	10/25/22	3	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<14	<47	<47	72	
BH-23	10/25/22	3	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<50	120	
BH-24	10/25/22	2	<0.025	≥0.049	<0.049	≥0:08	≥0.008	~ 4.0	 	-49	<49	690_	
BH-24A	11/11/22	*	<0.024	₹0.049	<0.049	₹0:00 8	₹0.00 8	~4.9	 	50	~50	870_	
BH-24B	1/10/23	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.2	<41	<41	490	
BH-25	10/25/22	2	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<14	<47	<47	530	
BH-26	12/15/22	4	<0.019	<0.037	<0.037	<0.075	<0.075	<3.7	<14	<48	<48	160	
BH-27	1/10/23	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.0	<45	<45	580	
BH-28	1/10/23	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.4	<42	<42	760	
					Sidewall C	onfirmation San	nples						
SW-2A	10/25/22	0-2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<15	<49	<49	<60	
SW-3A	10/25/22	0-2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<46	<46	<60	
SW-4	10/25/22	0-2/0-3	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<15	<49	<49	190	
SW-5	10/25/22	0-2/0-3	<0.023	<0.046_	<0.046	₹0.00 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	₹4.6	#	-47_	<47	4,600	
SW-5A	11/11/22	0-2/0-3/0-4	<0.024	<0.04 7	<0.047	<0:005	₹0.995	24.7	1	-47_	<47	1,700	
SW-6	10/25/22	0-2/0-3	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<46	<46	360	
SW-7	10/25/22	0-2/0-3	<0.025	<0.049	<0.049	₹0:00 9	≥0.00 9	-4.0	#	48	~48	840_	
SW-7A	11/11/22	0-2/0-3	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<15	<48	<48	430	
SW-8	10/25/22	0-2/0-3	<0.023	≥0.046	≥0.046	<0.092	₹0.092	₹4.6	#	~46	₹46	1,700	
SW-8A	11/11/22	0-3/0-4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<14	<47	<47	450	
SW-0	10/25/22	0-2/0-3	<0.025	<0.050	<0.050	<0.099	≥0.09 9	₹5.0	\\ \frac{45}{\\ \	~50	-50-	690_	
SW-9A	11/11/22	0-3/0-4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<14	<48	<48	500	
SW-10	12/15/22	0-4	<0.016	<0.033	<0.033	<0.065	<0.065	<3.3	<15	<50	<50	470	
SW-11	12/15/22	0-4	<0.014	<0.027	<0.027	<0.054	<0.054	<2.7	<15	<50	<50	530	

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

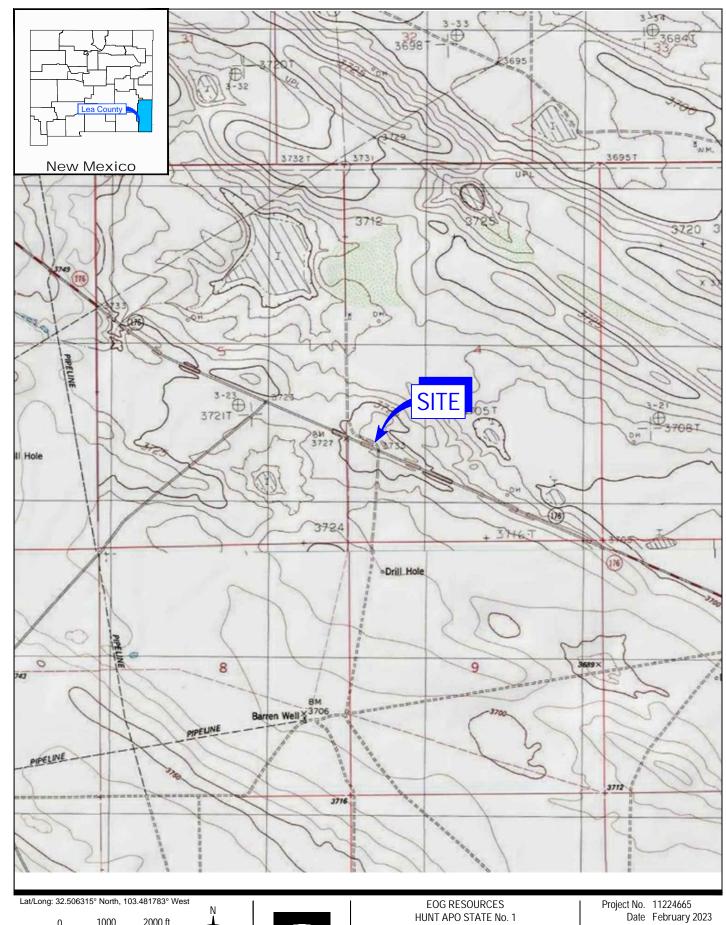
- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
- 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
- --- = not defined

Table 4 Daily Disposal Summary Hunt APO State #1 EOG Resources Lea County, New Mexico

Date of	Total Pounds	Total Tons
Disposal	Disposed	Disposed
4/18/2022	596,420	298.21
4/19/2022	723,760	361.88
4/21/2022	94,420	47.21
4/22/2022	180,740	90.37
10/31/2022	317,020	158.51
11/1/2022	226,140	113.07
11/2/2022	196,720	98.36
11/15/2022	449,460	224.73
1/9/2023	336,660	168.33
1/18/2023	248,940	124.47
1/19/2023	100,460	50.23
Project Total	3,470,740	1735.37

Figures

Received by OCD: 6/6/2023 2:07:22 PM



NAD 1983 (2011) StatePlane-New Mexico East (US Feet) SITE LOCATION MAP Filename: \ghdnef\ghd\USMidland\Projects\562\11224665\Digital_Design\ACAD 2017\Figures\PRE001\11224665-GHD-00-00-PRE-EN-D101_DL-001_Topo.dwg
Plot Date: 16 February 2023 1:33 PM

1000

Coordinate System:

2000 ft

Source: USGS 7.5 Minute Quad "Monument SW, San Simon Ranch, Grama Ridge, and Lea, New Mexico"

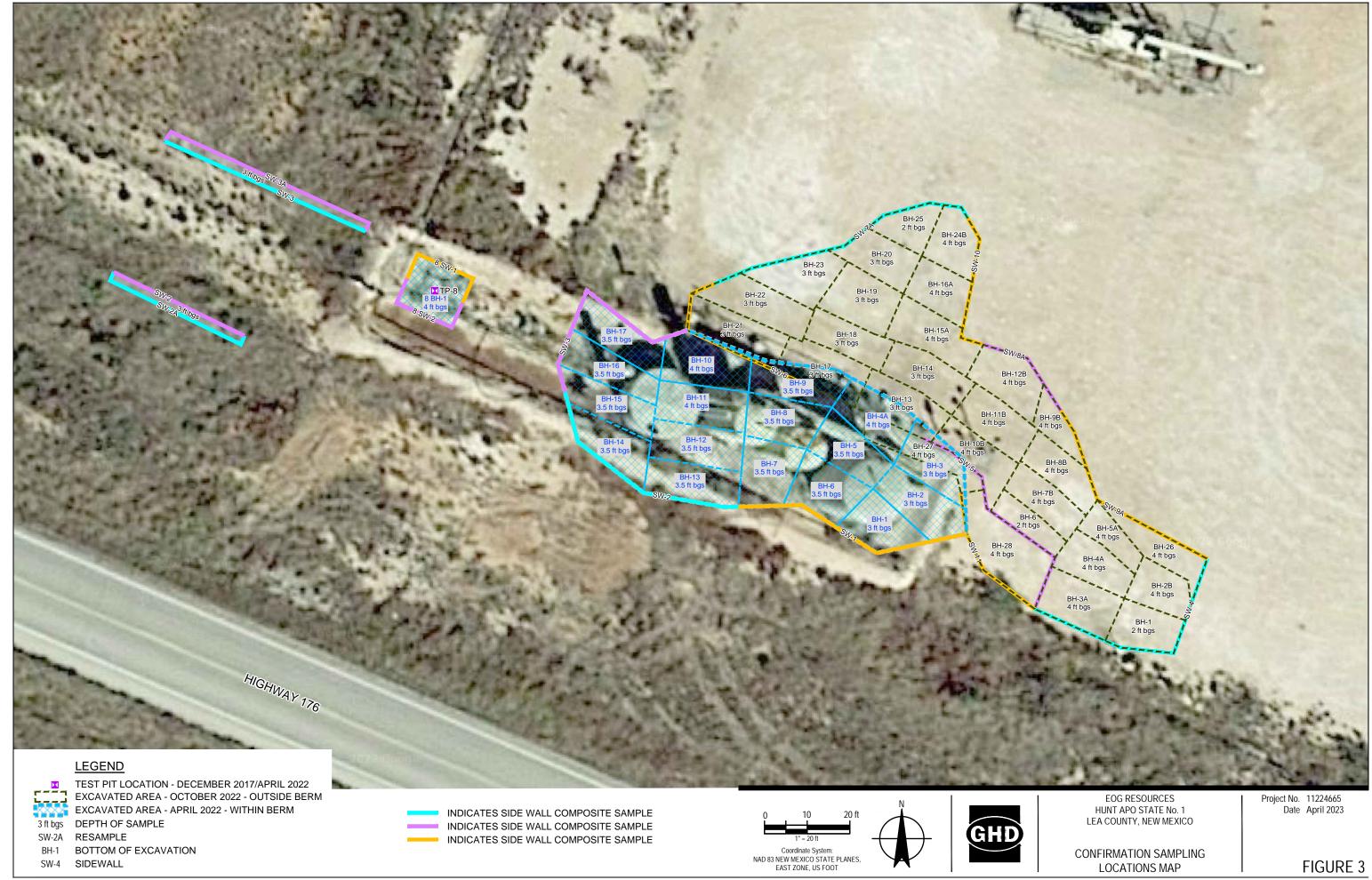
FIGURE 1

LEA COUNTY, NEW MEXICO

Received by OCD: 6/6/2023 2:07:22 PM



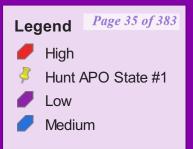
Received by OCD: 6/6/2023 2:07:22 PM



Attachment A Site Characterization Documentation

Received by OCD: 6/6/2023 2:07:22 PM EOG Hunt APO State #1

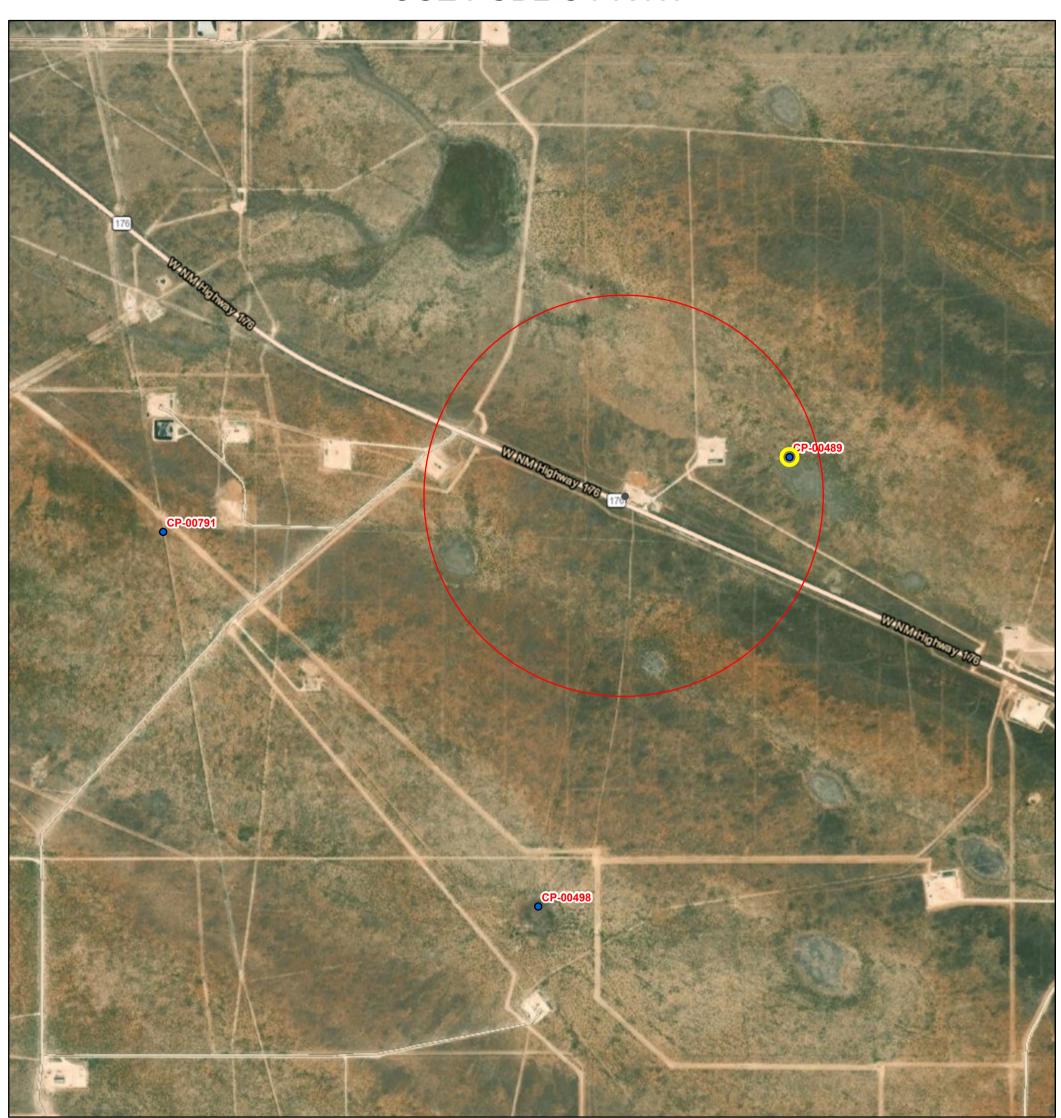
Karst Potential Map



Hunt APO State #1



OSE PUBLIC PRINT



5/14/2021, 1:44:47 PM GIS WATERS PODs

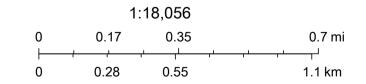
•

Active

os

OSE District Boundary

SiteBoundaries



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



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

mber Q64Q16Q4 Sec Tws Rng

X

CP 00498

2 4 08 21S 34E

642287 3595932*

9

Driller License: 208

Driller Company:

VAN NOY, W.L.

Driller Name: VAN NOY, W.L.

Drill Start Date: 09/28/1971

Drill Finish Date:

09/30/1971

Plug Date:

01 11

Log File Date:

10/04/1971

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Silliated field.

Casing Size:

7.00

Depth Well:

145 feet

Depth Water:

120 feet

Water Bearing Stratifications:

Top Bottom Description

135

140 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom 125 145

125

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/14/21 12:41 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64Q16Q4 Sec Tws Rng

X Y

CP 00791

4 2 4 06 21S 34E

640754 3597413*

9

Driller License: 1044

Driller Company:

EADES WELL DRILLING & PUMP SERVICE

Driller Name: EADES, ALAN

Drill Start Date: 06/16/1993

2.00

07/01/1993

Drill Finish Date: 06/16

06/16/1993 Plug Date:

Source: Shallow

Log File Date:

PCW Rcv Date:

Estimated Yield: 35 GPM

Pump Type:

Pipe Discharge Size:

Estimated field: 35 (

Casing Size:

Depth Well:

85 feet

Depth Water:

55 feet

Water Bearing Stratifications:

Top Bottom Description

55

85 Sandstone/Gravel/Conglomerate

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/14/21 12:34 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

D Number Q64 Q16 Q4 Sec Tws Rng

X

CP 00489

04 21S 34E

643274 3597749*

9

Driller License: 208

Driller Company:

VAN NOY, W.L.

Driller Name: VAN NOY, W.L.

Drill Start Date: 06/21/1971

,

Drill Finish Date:

06/22/1971

Plug Date:

Source:

01 11

Log File Date:

07/01/1971

PCW Rcv Date:

00,22,10,1

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

125 feet

Depth Water:

95 feet

Water Bearing Stratifications:

6.63

Top Bottom Description

110

120 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

100 120

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/14/21 12:28 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 323022103285301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323022103285301 21S.34E.04.311331

Lea County, New Mexico Latitude 32°30'50.1", Longitude 103°28'59.8" NAD83 Land-surface elevation 3,713 feet above NAVD88 The depth of the well is 125 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

					Output ioi	mats				
Table of	<u>data</u>									
Tab-sepa	rated data									
Graph of	<u>data</u>									
Reselect	<u>period</u>									
Date	Time	? Water- level date-	? Parameter code	Water level, feet below land	Water level, feet above specific	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu

Date	Time	Water- level date- time accuracy	? Parameter code	level, feet below land surface	feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1981-03-11		D	62610		3625.09	NGVD29	1	Z		
1981-03-11		D	62611		3626.65	NAVD88	1	Z		
1981-03-11		D	72019	86.35			1	Z		
1986-03-21		D	62610		3622.97	NGVD29	1	Z		
1986-03-21		D	62611		3624.53	NAVD88	1	Z		
1986-03-21		D	72019	88.47			1	Z		
1991-05-01		D	62610		3621.34	NGVD29	1	Z		
1991-05-01		D	62611		3622.90	NAVD88	1	Z		
1991-05-01		D	72019	90.10			1	Z		
1996-03-13		D	62610		3620.30	NGVD29	1	S		
1996-03-13		D	62611		3621.86	NAVD88	1	S		
1996-03-13		D	72019	91.14			1	S		
2015-12-17	23:00 UTC	m	62610		3618.77	NGVD29	1	S	USGS	
2015-12-17	23:00 UTC	m	62611		3620.33	NAVD88	1	S	USGS	
2015-12-17	23:00 UTC	m	72019	92.67			1	S	USGS	

USGS Groundwater for USA: Water Levels -- 1 sites

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals <u>Help</u> **Data Tips** Explanation of terms
Subscribe for system changes News

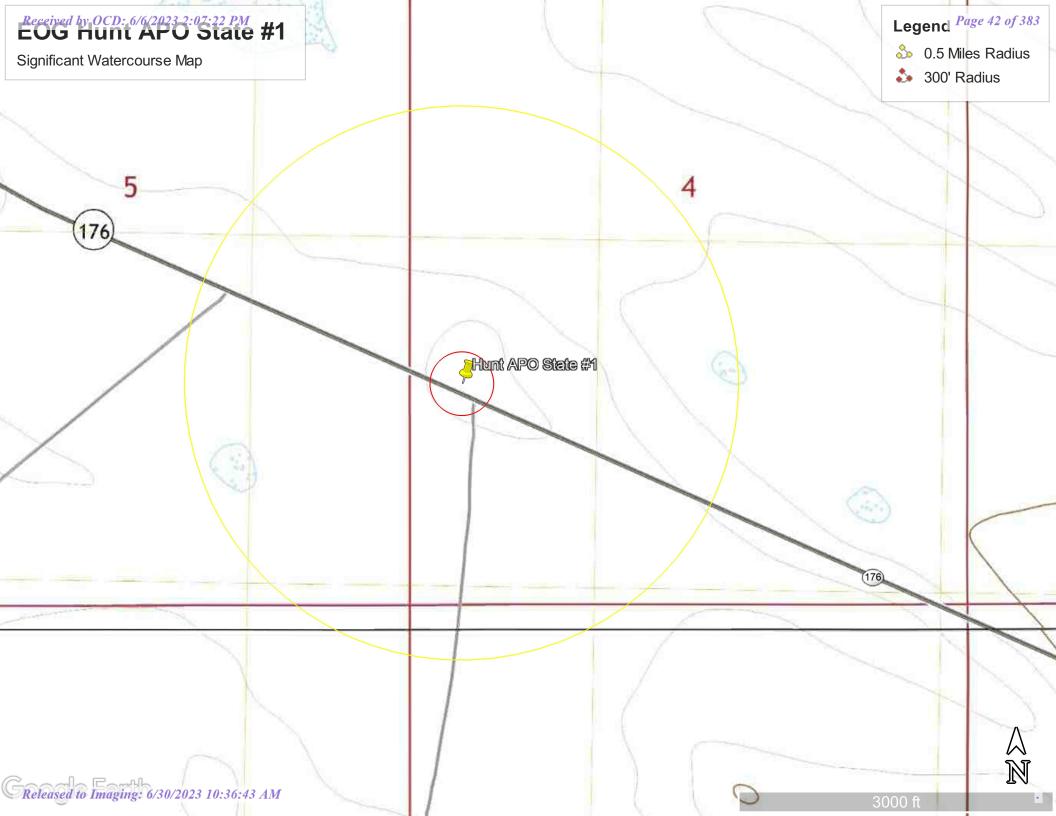
Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-05-14 14:54:12 EDT

0.33 0.28 nadww01





EOG Hunt APO State #1



May 14, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine



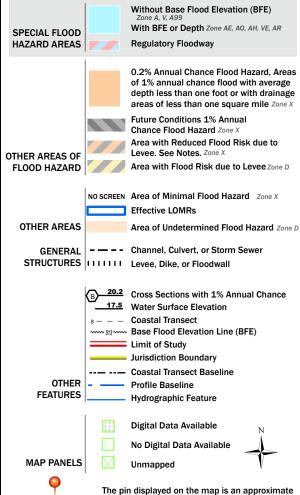
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Received by OCD: 6/6/2023 2:07:22 PM National Flood Hazard Layer FIRMette





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



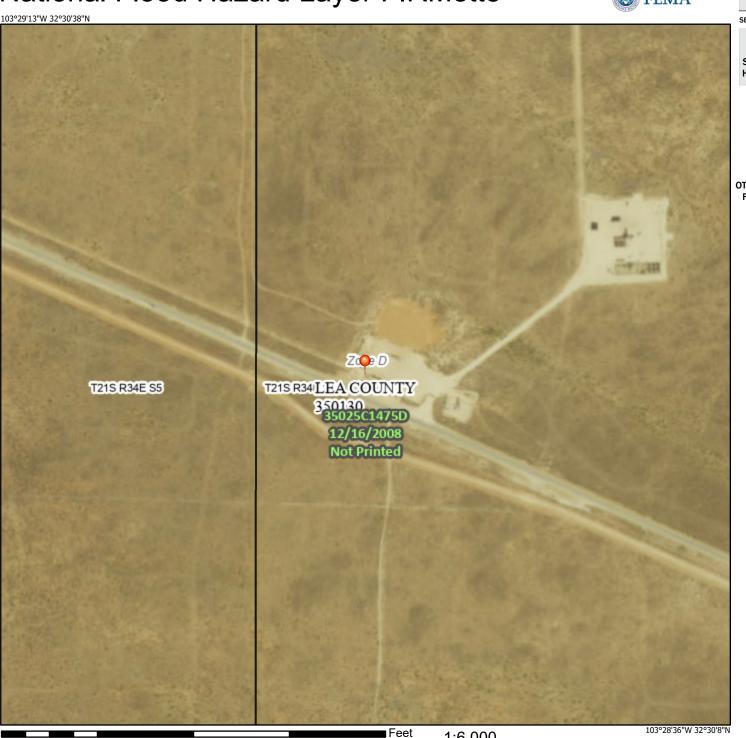
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/14/2021 at 2:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Attachment B Soil Boring Log

Page 1 of 2

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

SIGNATION: SB-1

PROJECT NAME: Hunt APO State #1 HOLE DESIGNATION: SB-1
PROJECT NUMBER: 11224665 DATE COMPLETED: 17 May 2022

CLIENT: EOG Resources DRILLING METHOD: Air Rotary/Split Spoons and Cuttings

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH	M	ONITORING WELL			SAMF	PLE	
ft BGS	OTTO THE BESSELL HOT A RELIGIOUS	,	BGS	F	31111011110 WEEE	NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH
						N N	INTE	REC	SH	TOT.
	SP-SAND, fine to medium grained sand, with common backfill, caliche gravel interbedded throughout, dry									
- 5	- light brown at 5.00ft BGS								292	0
10									ND	0
15								-	ND	0
- 20										
- 25										
- 30										
35										
40										
45										
- 50										
- 55					Grout					
- 60										
- 65										

Page 2 of 2

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

SB-1 HOLE DESIGNATION:

PROJECT NAME: Hunt APO State #1 PROJECT NUMBER: 11224665 DATE COMPLETED: 17 May 2022

CLIENT: EOG Resources DRILLING METHOD: Air Rotary/Split Spoons and Cuttings

LOCATION: Lea County, New Mexico FIELD PERSONNEL: L. Mullins DRILLING CONTRACTOR: HCI Drilling DRILLER: K. Cooper SAMPLE DEPTH DEPTH STRATIGRAPHIC DESCRIPTION & REMARKS MONITORING WELL BGS ft BGS TOTAL TPH (mg/kg) CHLORIDE (mg/kg) NTERVAL NUMBER REC (%) 22/6/22 - 75 Date: **OVERBURDEN LOG** - 80 7" Ø Borehole - 85 - 90 GHD_ENVIRO_V06.GLB 2" Ø Screen - 95 - 100 Library File: - 105 105.00 END OF BOREHOLE @ 105.00ft BGS LOGS.GPJ WELL DETAILS Screened interval: 85.00 to 105.00ft BGS Length: 20ft - 110 Diameter: 2in \\GHDNET\\GHD\US\\MIDLAND\\PROJECTS\\562\\11224665\\TECH\\GINT LOGS\\11224665 NOTE: This well was plugged and |--- 115 abandoned at a later date. - 120 - 125 --- 130 --- 135 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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



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

May 23, 2018

Bernie Bockisch GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: Hunt OrderNo.: 1805659

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/11/2018 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1805659

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: GHD Lab Order: 1805659

Project: Hunt

Lab ID: 1805659-001 **Collection Date:** 5/9/2018

Client Sample ID: S-088210-53-050918-MG-TP-1-2' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					An	alyst: MRA
Chloride	89	30	mg/Kg	20	5/17/2018 3:06:15	PM 38174
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	;			An	alyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/17/2018 3:37:16	PM 38089
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/17/2018 3:37:16	PM 38089
Surr: DNOP	116	70-130	%Rec	1	5/17/2018 3:37:16	PM 38089
EPA METHOD 8015D: GASOLINE RAN	IGE				An	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/14/2018 10:50:0	9 PM 38083
Surr: BFB	86.1	15-316	%Rec	1	5/14/2018 10:50:0	9 PM 38083
EPA METHOD 8021B: VOLATILES					An	alyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/14/2018 10:50:0	9 PM 38083
Toluene	ND	0.049	mg/Kg	1	5/14/2018 10:50:0	9 PM 38083
Ethylbenzene	ND	0.049	mg/Kg	1	5/14/2018 10:50:0	9 PM 38083
Xylenes, Total	ND	0.098	mg/Kg	1	5/14/2018 10:50:0	9 PM 38083
Surr: 4-Bromofluorobenzene	96.1	80-120	%Rec	1	5/14/2018 10:50:0	9 PM 38083

Lab ID: 1805659-002 **Collection Date:** 5/9/2018

Client Sample ID: S-088210-53-050918-MG-TP-1-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: MRA
Chloride	130	30	mg/Kg	20	5/17/2018 3:43:28 F	PM 38174
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Ana	lyst: TOM
Diesel Range Organics (DRO)	18	10	mg/Kg	1	5/17/2018 4:01:14 F	PM 38089
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/17/2018 4:01:14 F	PM 38089
Surr: DNOP	106	70-130	%Rec	1	5/17/2018 4:01:14 F	PM 38089
EPA METHOD 8015D: GASOLINE RANG	GE				Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/15/2018 12:23:03	AM 38083
Surr: BFB	84.0	15-316	%Rec	1	5/15/2018 12:23:03	AM 38083
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/15/2018 12:23:03	AM 38083
Toluene	ND	0.049	mg/Kg	1	5/15/2018 12:23:03	AM 38083
Ethylbenzene	ND	0.049	mg/Kg	1	5/15/2018 12:23:03	AM 38083
Xylenes, Total	ND	0.098	mg/Kg	1	5/15/2018 12:23:03	AM 38083
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	5/15/2018 12:23:03	AM 38083

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 Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order: 1805659

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: GHD Lab Order: 1805659

Project: Hunt

Lab ID: 1805659-003 **Collection Date:** 5/10/2018

Client Sample ID: S-088210-53-051018-MG-TP-2-2' Matrix: SOIL

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Bat	ch ID
EPA METHOD 300.0: ANIONS					Ana	alyst:	MRA
Chloride	94	30	mg/Kg	20	5/17/2018 4:20:42	PM	38174
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS				Ana	alyst: '	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/17/2018 4:25:23	PM	38089
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/17/2018 4:25:23	PM	38089
Surr: DNOP	108	70-130	%Rec	1	5/17/2018 4:25:23	PM	38089
EPA METHOD 8015D: GASOLINE RAN	GE				Ana	alyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/15/2018 12:46:13	3 AM	38083
Surr: BFB	86.9	15-316	%Rec	1	5/15/2018 12:46:13	3 AM	38083
EPA METHOD 8021B: VOLATILES					Ana	alyst:	NSB
Benzene	ND	0.025	mg/Kg	1	5/15/2018 12:46:13	3 AM	38083
Toluene	ND	0.049	mg/Kg	1	5/15/2018 12:46:13	3 AM	38083
Ethylbenzene	ND	0.049	mg/Kg	1	5/15/2018 12:46:13	3 AM	38083
Xylenes, Total	ND	0.098	mg/Kg	1	5/15/2018 12:46:13	3 AM	38083
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	5/15/2018 12:46:13	3 AM	38083

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 Detection Limit

Page 2 of 8

Lab Order: 1805659

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: GHD Lab Order: 1805659

Project: Hunt

Lab ID: 1805659-004 **Collection Date:** 5/10/2018

Client Sample ID: S-088210-53-051018-MG-TP-3-2' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	400	30	mg/Kg	20	5/17/2018 4:33:07 PM	38174
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: TOM
Diesel Range Organics (DRO)	67	10	mg/Kg	1	5/18/2018 9:41:16 AM	38089
Motor Oil Range Organics (MRO)	160	50	mg/Kg	1	5/18/2018 9:41:16 AM	38089
Surr: DNOP	114	70-130	%Rec	1	5/18/2018 9:41:16 AM	38089
EPA METHOD 8015D: GASOLINE RANGE	Ē				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/15/2018 1:09:23 AM	38083
Surr: BFB	84.6	15-316	%Rec	1	5/15/2018 1:09:23 AM	38083
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/15/2018 1:09:23 AM	38083
Toluene	ND	0.048	mg/Kg	1	5/15/2018 1:09:23 AM	38083
Ethylbenzene	ND	0.048	mg/Kg	1	5/15/2018 1:09:23 AM	38083
Xylenes, Total	ND	0.096	mg/Kg	1	5/15/2018 1:09:23 AM	38083
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	5/15/2018 1:09:23 AM	38083

Lab ID: 1805659-005 **Collection Date:** 5/10/2018

Client Sample ID: S-088210-53-051018-MG-TP-4-2' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: MRA
Chloride	790	30	mg/Kg	20	5/17/2018 4:45:32 F	PM 38174
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Ana	lyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/17/2018 5:13:28 F	PM 38089
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/17/2018 5:13:28 F	PM 38089
Surr: DNOP	106	70-130	%Rec	1	5/17/2018 5:13:28 F	PM 38089
EPA METHOD 8015D: GASOLINE RANG	GE				Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/15/2018 1:32:39 A	AM 38083
Surr: BFB	89.5	15-316	%Rec	1	5/15/2018 1:32:39 A	AM 38083
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/15/2018 1:32:39 A	AM 38083
Toluene	ND	0.048	mg/Kg	1	5/15/2018 1:32:39 A	AM 38083
Ethylbenzene	ND	0.048	mg/Kg	1	5/15/2018 1:32:39 /	AM 38083
Xylenes, Total	ND	0.096	mg/Kg	1	5/15/2018 1:32:39 /	AM 38083
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/15/2018 1:32:39 A	AM 38083

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

Page 3 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order: 1805659

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: GHD Lab Order: 1805659

Project: Hunt

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 De

Page 4 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805659**

Page 5 of 8

23-May-18

Client: GHD Project: Hunt

Sample ID MB-38174 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 38174 RunNo: 51341

Prep Date: 5/17/2018 Analysis Date: 5/17/2018 SeqNo: 1671534 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38174 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38174 RunNo: 51341

Prep Date: 5/17/2018 Analysis Date: 5/17/2018 SeqNo: 1671535 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.8 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 Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805659

Page 6 of 8

23-May-18

Client: GHD **Project:** Hunt

Sample ID LCS-38089	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 38	089	R	RunNo: 5	1331				
Prep Date: 5/14/2018	Analysis D	ate: 5/	17/2018	SeqNo: 1669950 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	70	130			
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID MB-38089	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 38	089	F	RunNo: 5	1331				
Prep Date: 5/14/2018	Analysis D	ate: 5/	17/2018	8	SeqNo: 1	669951	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Η 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805659 23-May-18

Client: GHD Project: Hunt

Surr: BFB

Sample ID MB-38083 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 38083 RunNo: 51246

Prep Date: 5/12/2018 Analysis Date: 5/14/2018 SeqNo: 1666100 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 89.4 15 316

Sample ID LCS-38083 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 38083 RunNo: 51246

Prep Date: 5/12/2018 Analysis Date: 5/14/2018 SeqNo: 1666101 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 97.4 75.9 131 970 97.2

15

316

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805659

Page 8 of 8

23-May-18

Client: GHD Project: Hunt

Sample ID MB-38083 SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: 38083 RunNo: 51246 Prep Date: 5/12/2018 Analysis Date: 5/14/2018 SeqNo: 1666147 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 ND 0.050 ND 0.050

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120

Sample ID LCS-38083	Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	h ID: 38	083	F	RunNo: 5							
Prep Date: 5/12/2018	Analysis [Date: 5/	14/2018	\$	SeqNo: 1	666148	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.97	0.025	1.000	0	96.5	77.3	128					
Toluene	0.99	0.050	1.000	0	98.7	79.2	125					
Ethylbenzene	0.99	0.050	1.000	0	98.7	80.7	127					
Xylenes, Total	3.0	0.10	3.000	0	101	81.6	129					
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η 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
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GI	HD	Work Orde	r Number: 1805659		RoptNo:	1
Received By: Is	saiah Ortiz	5/11/2018 9:	50:00 AM	ICH		
Completed By: A	shley Gallegos	5/11/2018 11	:34:43 AM	AR		
Reviewed By:	A	05/12/18	Labeled	by: I	mu 5/12	418
Chain of Custoc	<u>dy</u>					
1. Is Chain of Custo	ody complete?		Yes 🗹	No 🗆	Not Present	
2. How was the sam	nple delivered?		Courier			
Log In 3. Was an attempt n	nade to cool the	samples?	Yes ⊻	No 🗔	na 🗆	
4. Were all samples	received at a ten	operature of >0° C to 6.0°	°C Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in prop	er container(s)?		Yes 🗹	No 🗆		
6. Sufficient sample	volume for indica	ted test(s)?	Yes 🗹	No 🗆		
7. Are samples (exce	ept VOA and ON	3) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative	added to bottles?		Yes	No 🗹	NA 🗌	:
9. VOA vials have ze	ro headspace?		Vac []	No 🗆	N- 1/00 15-1- [7]	
10. Were any sample		red broken?	Yes ☐ Yes ☐	No 🗹 🗀	No VOA Vials # of preserved	115
11. Does paperwork m (Note discrepancie			Yes 🗹	_	bottles checked	12 unless noted)
2. Are matrices corre			Yes 🗹	No 🗆	Adjusted	42 dilless (loteα)
3. Is it clear what ana			Yes 🗹	No 🗌		
4. Were all holding tir (If πο, notify custon			Yes 🗹	No 🗆	Checked by:	·
pecial Handling	(if applicable	<u>)</u>				
15. Was client notified			Yes 🗆	No 🗆	NA 🗹	
Person Notif	ied:		Date			
By Whom:			Via: 🗌 eMail 📗 Ph	one 🗌 Fax 📗	In Person	
Regarding:						
Client Instruc						
16. Additional remark	s:				_	
7. Cooler Information						
Cooler No Te	emp ºC Condit Good	ion Seal Intact Seal Yes	No Seal Date S	Signed By		
Lacronic concerns respectively to the concerns described to	10000	1 C3	AND THE PROPERTY OF THE PROPER	tolk from a construction a trick from the first from the same and		
Page 1 of 1						

HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	'5 Fax 505-345-4107 Analysis Reguest	(*)	S'⁵Oc	€¢' (γ	slst ON,I (\sqrt{OV}\sqrt{Supplies}	PAH's (8310 RCRA 8 Me Anions (F,Cl 8081 Pestici AOV) 8260B (VOA -imeS) 0728 -imeS) 0728	X	X	X	X	×			Courier Pate Time Remarks: Courier Pate Time Courier Pate Time Surflex 45C) Surfle
HALL	www 4901 Hawkins N	Tel. 505-345-3975			O / DR	45)	ETEX + MTI TPH 8015B TPH (Metho	X	X	X	X	X			arks: y. Any sub-contracted d
	,	•					BTEX + M#	X	X	X	×	X			Remarks: Remark
Turn-Around Time: Sola / Kandard □ Rush Project Name:	Hunt	Project #: @\$\$A\@`S3	•Com Project Manager:	Bernard Bockisch	Sampler: A(C On Ice	empera	Container Type and # Type KDS (DS)	42501/Sec Ict -00	7002	500-	400				Received by Received by Received by Courier Date Time Time Suffe 9 Intracted to other accredited laboratories. This serves as notice in
Chain-of-Custody Record	School RASte200	NEMBUGUEROUS, N.M. 8740 Phone #: 505 884 0672	ischegha	QA/QC Package: □ Standard □ Level 4 (Full Validation)		□ EDD (Type)	rix Sample Request ID	5/9/18 S 200831055, 55018. METP. 1.2, 1	5.08501850-5041846-TP-1.4	S/10/13 Siorganossioshurante 102.2	5'0883W.53'085W.46-TP:3'2'	Songwords 16 Glaif Mc TP 42			Date: Time: Relinquished by: Date: Time: Remainshed by: Sing fra Received by: If necessary, samples submitted to Hall Environmental may be subcontracted to other



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

June 15, 2018

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: Hunt OrderNo.: 1805G09

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/31/2018 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

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1805G09**Date Reported: **6/15/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1805G09 **Project:** Hunt Lab ID: 1805G09-001 **Collection Date:** 5/25/2018 10:00:00 AM Client Sample ID: S-088210-53-052518-MG-TP-5-2 Matrix: SOIL PQL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2700 100 6/12/2018 2:46:36 PM 38484 150 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.9 6/1/2018 5:54:29 PM mg/Kg 38417 Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 6/1/2018 5:54:29 PM 38417 Surr: DNOP 100 70-130 %Rec 1 6/1/2018 5:54:29 PM 38417 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.9 mg/Kg 6/1/2018 11:11:54 PM 38424 1 Surr: BFB 6/1/2018 11:11:54 PM 84.4 15-316 %Rec 1 38424 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 0.025 6/1/2018 11:11:54 PM Benzene mg/Kg 1 38424 Toluene ND 0.049 mg/Kg 6/1/2018 11:11:54 PM 38424 Ethylbenzene ND 0.049 mg/Kg 6/1/2018 11:11:54 PM 38424 1 Xylenes, Total ND 0.099 mg/Kg 6/1/2018 11:11:54 PM 38424 Surr: 4-Bromofluorobenzene 95.5 80-120 %Rec 6/1/2018 11:11:54 PM 38424 Collection Date: 5/25/2018 10:50:00 AM Lab ID: 1805G09-002 Client Sample ID: S-088210-53-052518-MG-TP-6-2 Matrix: SOIL Analyses Result PQL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2000 6/12/2018 1:07:22 PM 75 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM 6/1/2018 6:16:56 PM Diesel Range Organics (DRO) ND 10 38417 mg/Kg 1 Motor Oil Range Organics (MRO) ND 50 mg/Kg 6/1/2018 6:16:56 PM 38417 Surr: DNOP 86.0 38417 70-130 %Rec 6/1/2018 6:16:56 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.9 mg/Kg 6/2/2018 12:21:34 AM 38424 Surr: BFB 94.1 15-316 6/2/2018 12:21:34 AM 38424 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: NSB 6/2/2018 12:21:34 AM Benzene ND 0.025 mg/Kg 38424 Toluene ND 0.049 6/2/2018 12:21:34 AM mg/Kg 38424 Ethylbenzene ND 0.049 mg/Kg 6/2/2018 12:21:34 AM 38424 Xylenes, Total ND 0.098 mg/Kg 6/2/2018 12:21:34 AM 38424 Surr: 4-Bromofluorobenzene 80-120 %Rec 6/2/2018 12:21:34 AM 103 38424 Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information. **Qualifiers:** Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Η Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits Page 1 of 7 ND Not Detected at the Reporting Limit P Sample pH Not In Range

RL

Reporting Detection Limit

PQL Practical Quanitative Limit

Lab Order: 1805G09

Date Reported: 6/15/2018

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1805G09

Project: Hunt

GHD

CLIENT:

Lab ID: 1805G09-003 Collection Date: 5/25/2018 10:52:00 AM

Client Sample ID: S-088210-53-052518-MG-TP-7-1 Matrix: SOIL

Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 3300 100 6/12/2018 1:19:46 PM 150 38484 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM 6/1/2018 6:39:22 PM Diesel Range Organics (DRO) ND 9.8 mg/Kg 38417 Motor Oil Range Organics (MRO) ND 49 mg/Kg 6/1/2018 6:39:22 PM 38417 1 Surr: DNOP 90.3 70-130 %Rec 6/1/2018 6:39:22 PM 38417 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 6/2/2018 1:31:13 AM 38424 1 Surr: BFB 92.6 15-316 %Rec 6/2/2018 1:31:13 AM 38424 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 6/2/2018 1:31:13 AM 38424 ND Toluene 0.048 mg/Kg 6/2/2018 1:31:13 AM 38424 mg/Kg Ethylbenzene ND 0.048 6/2/2018 1:31:13 AM 38424 1 Xylenes, Total ND 0.097 mg/Kg 6/2/2018 1:31:13 AM 38424 Surr: 4-Bromofluorobenzene 104 80-120 %Rec 6/2/2018 1:31:13 AM 38424

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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits

Page 2 of 7

- P Sample pH Not In Range
- RLReporting Detection Limit

Lab Order: 1805G09

Date Reported: 6/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1805G09

Project: Hunt

Lab ID: 1805G09-004 **Collection Date:** 5/25/2018 10:55:00 AM

Client Sample ID: S-088210-53-052518-MG-TP-8-1 Matrix: SOIL

PQL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 5700 300 mg/Kg 200 6/12/2018 1:32:11 PM 38484 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM 6/1/2018 7:01:35 PM Diesel Range Organics (DRO) ND 38417 10 mg/Kg Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 6/1/2018 7:01:35 PM 38417 Surr: DNOP 89.4 70-130 %Rec 6/1/2018 7:01:35 PM 38417 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 6/2/2018 3:50:25 AM 38424 1 Surr: BFB 88.6 6/2/2018 3:50:25 AM 38424 15-316 %Rec 1 Analyst: NSB **EPA METHOD 8021B: VOLATILES** Benzene ND 0.024 6/2/2018 3:50:25 AM 38424 mg/Kg 1 Toluene 6/2/2018 3:50:25 AM ND 0.048 mg/Kg 38424 ND Ethylbenzene 0.048 mg/Kg 6/2/2018 3:50:25 AM 38424 1 Xylenes, Total ND 0.097 mg/Kg 6/2/2018 3:50:25 AM 38424 Surr: 4-Bromofluorobenzene 99.2 80-120 %Rec 6/2/2018 3:50:25 AM 38424

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

Page 3 of 7

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805G09**

15-Jun-18

Client: GHD Project: Hunt

Sample ID MB-38484 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 38484 RunNo: 51782

Prep Date: 6/5/2018 Analysis Date: 6/5/2018 SeqNo: 1690475 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38484 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38484 RunNo: 51782

Prep Date: 6/5/2018 Analysis Date: 6/5/2018 SeqNo: 1690476 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Detection Limit
- W Sample container temperature is out of limit as specified

. .

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805G09**

15-Jun-18

Client: GHD Project: Hunt

Sample ID LCS-38417 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 38417 RunNo: 51656 Prep Date: 5/31/2018 Analysis Date: 6/1/2018 SeqNo: 1687282 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 50.00 0 70 52 103 130 Surr: DNOP 5.000 98.8 70 4.9 130

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-38417 SampType: MBLK Batch ID: 38417 Client ID: PBS RunNo: 51656 Prep Date: Analysis Date: 6/1/2018 5/31/2018 SeqNo: 1687283 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 108 70 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 6/30/2023 10:36:43 AM

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805G09

15-Jun-18

Client: GHD Project: Hunt

Sample ID MB-38424 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 38424 RunNo: 51667

Prep Date: 5/31/2018 Analysis Date: 6/1/2018 SeqNo: 1685722 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 5.0

Gasoline Range Organics (GRO) ND Surr: BFB 990 1000 99.0

15 316

Sample ID LCS-38424 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 38424 RunNo: 51667

Prep Date: 5/31/2018 Analysis Date: 6/1/2018 SeqNo: 1685723 Units: mg/Kg

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

Gasoline Range Organics (GRO) 5.0 25.00 0 110 75.9 131 Surr: BFB 1100 1000 110 15 316

SampType: MS TestCode: EPA Method 8015D: Gasoline Range Sample ID 1805G09-001AMS

Client ID: S-088210-53-052518 Batch ID: 38424 RunNo: 51667

Prep Date: 5/31/2018 Analysis Date: 6/1/2018 SeqNo: 1685725 Units: mg/Kg

%RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 26 4.9 24.41 106 77.8 128

Surr: BFB 1000 976.6 316 106 15

Sample ID 1805G09-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-088210-53-052518 Batch ID: 38424 RunNo: 51667

Analysis Date: 6/1/2018 Prep Date: 5/31/2018 SeqNo: 1685726 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 4.9 24.56 111 77.8 128 5.93 20 Λ Surr: BFB 1000 982.3 107 15 316 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805G09

15-Jun-18

Client: GHD Project: Hunt

Sample ID MB-38424 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 38424 RunNo: 51667

Prep Date: 5/31/2018 Analysis Date: 6/1/2018 SeqNo: 1685758 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 ND 0.050

Toluene Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120

Sample ID LCS-38424 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 38424 RunNo: 51667 Prep Date: 5/31/2018 Analysis Date: 6/1/2018 SeqNo: 1685759 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Result Qual 0.025 1.000 0 91.8 77.3 128 Benzene 0.92 Toluene 0.94 0.050 1.000 0 94.5 79.2 125 Ethylbenzene 0.94 0.050 0 94.3 80.7 1.000 127 Xylenes, Total 2.9 0.10 3.000 0 96.3 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 105 80 120

Sample ID 1805G09-002AMS TestCode: EPA Method 8021B: Volatiles SampType: MS

Client ID: S-088210-53-052518 Batch ID: 38424 RunNo: 51667

Prep Date: 5/31/2018	Analysis Date: 6/2/2018			S	SeqNo: 1	685762	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9960	0	97.5	68.5	133			
Toluene	1.0	0.050	0.9960	0.008734	101	75	130			
Ethylbenzene	1.0	0.050	0.9960	0	103	79.4	128			
Xylenes, Total	3.2	0.10	2.988	0	106	77.3	131			
Surr: 4-Bromofluorobenzene	1.1		0.9960		106	80	120			

Sample ID 1805G09-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Batch ID: 38424 Client ID: S-088210-53-052518 RunNo: 51667

Prep Date: 5/31/2018	Analysis Date: 6/2/2018			S	SeqNo: 1	685763	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9718	0	93.2	68.5	133	7.01	20	
Toluene	0.94	0.049	0.9718	0.008734	95.8	75	130	7.18	20	
Ethylbenzene	0.95	0.049	0.9718	0	98.0	79.4	128	7.74	20	
Xylenes, Total	2.9	0.097	2.915	0	100	77.3	131	7.52	20	
Surr: 4-Bromofluorobenzene	1.0		0.9718		103	80	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 7 of 7



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

Sample Log-In Check List

Client Name:	GHD		Work	Order Nun	nber: 180	5 G0 9		RcptNo	p: 1
Received By:	Jazzmine	Burkhead	5/31/20	18 9:50:00	AM		ere il Kir		
Completed By:	Ęrin Mele	ndrez	5/31/20	18 11:58:4	9 AM		MUL		
Reviewed By:	Lesh		5[31]	(d _A					
	20		, (
Chain of Cust				•					
1. Is Chain of Cu		lete?			Yes	V	No 🗔	Not Present	
2. How was the s	sample deliv	ered?			Coul	<u>ier</u>			
Log In									
3. Was an attemp	pt made to c	cool the samp	les?		Yes	✓	No 🗌	NA 🗆	
4. Were all sample	les received	at a tempera	ture of >0° C	to 6.0°C	Yes	✓	No 🗔	NA 🗔	
5. Sample(s) in p	roper contai	iner(s)?			Yes	✓	No 🗌		
6. Sufficient samp	ole volume f	or indicated te	est(s)?		Yes	✓	No 🗔		
7. Are samples (e	xcept VOA	and ONG) pro	operly preserve	ed?	Yes	✓	No 🗌		
8. Was preservati	ve added to	bottles?			Yes		No 🗹	NA 🗌	
9. VOA vials have	zero heads	pace?			Yes		No 🗆	No VOA Vials 🗹	,
10. Were any sam	ple containe	ers received b	roken?		Yes		No 🗹	# of preserved	10/
11. Does paperwor (Note discrepar			,		Yes	✓	No 🗆	bottles checked for pH: (<2 g	r>12 baless noted)
2. Are matrices co		•	,		Yes	✓	No 🗆	Adjusted?	Saless notes,
3. Is it clear what			-			✓	No 🗌		
4. Were all holding					Yes	✓	No 🗆	Checked by: _	
(If no, notify out	stomer for a	uthorization.)							
Special Handli	ng (if app	licable)							
15. Was client noti	fied of all di	screpancies v	with this order?	•	Yes		No	NA 🔽	
Person N	Notified:			. Date					
By Whor	n: [r Via:	eMa	uil 🗀	Phone Tax	In Person	
Regardin	g: [
Client Ins	structions:								
16. Additional rem	narks:								
17. Cooler Inform	nation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ite_	Signed By		
COOKET 140			Yes	1					

TAL ORY	(N	o Y) səlddu8 viA							
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	00,	1 1	X	X		۷.			
NE SOM		8260B (AOA) 8270 (Semi-VOA		+	+		-	-	
IALL ENVIRON NALYSIS LAB www.hallenvironmental.com	Analysis Request	8081 Pesticides		+		++	++		
Janer	(\$OS\\$O4\SON\\$	Anions (F,CI,NO		\forall	1				
Abr. Abr.	naly	RCRA 8 Metals		1					
A P L	(SMIS 07S	3 to 0158) a'HA9			T				
A Z www	(VINO 885) PHY (OPM \ OPIG\ OP	EDB (Method 50							
da vi	(1.8	14 botheM) H9T							
1 5 E	O / DRO / MRO)		X	\times	(?	×			.id
34	(Man and) Hat	+ 38TM + X3T8		S = 1	1				Remarks:
	(1508) s.8MT	BTEX + MTBE	$X \downarrow$	X	$\langle \rangle$		\perp		
Project Name:	Project Manager: Alan Branclan Sampler: M.C.	Temperature: 4,	405/5/ ICE -001	200-	500-	10001			Received by: Day Time Solly OPE Property of State Time Time Time Time State State Time
Client: CHD Services Mailing Address: 6121 Indian School Rd Stadoo	Phone #: SCS 884 OEZZ email or Fax#: Al avi . Branden Colnd . Ccm OA/OC Package: Standard	Date Time Matrix Sample Request ID	S/25/18/1000 > SCSSAIDOSS-CSSSIRMETREA			1 CSS 5088218-53-052519-416-118-31			S X § 1920 K



Certificate of Analysis Summary 621828

$GHD\text{-}Albuquerque, NM, \ Albuquerque, NM$

Project Name: Hunt APO State #1



Project Id: 088210/53
Contact: Jeff Walker

Lea County, NM

Project Location:

L

Date Received in Lab: Mon Apr-22-19 09:30 am

Report Date: 01-MAY-19 **Project Manager:** Debbie Simmons

	Lab Id:	621828-0	001	621828-0	002	621828-0	03	621828-0	04	621828-0	005	621828-0	06
Analysis Requested	Field Id:	S-088210-53 041:)88210-53 041519-MM-B		19-MM-SV	-088210-53 041819-MM-SV		¥-088210-53 041819-MM-S¹		V-088210-53 041819-MM-SV		S-088210-53 041819-MM	
Anatysis Requested	Depth:	4- ft		2- ft		2- ft		2- ft		2- ft		4- ft	
	Matrix:	SOIL		SOIL	SOIL		SOIL			SOIL		SOIL	
	Sampled:	Apr-15-19	Apr-15-19 13:51		12:23	Apr-18-19 09:35		Apr-18-19 09:52		Apr-18-19	10:38	Apr-18-19 1	10:20
Inorganic Anions by EPA 300/300.1	Extracted:	Apr-25-19	Apr-25-19 17:00		Apr-25-19 17:00		Apr-25-19 17:00		Apr-25-19 17:00		Apr-25-19 17:00		7:00
	Analyzed:	Apr-26-19	08:42	Apr-26-19 08:47		Apr-26-19 09:03		Apr-26-19 08:53		Apr-26-19 08:58		Apr-26-19 09:2	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1340	26.7	403	5.09	607	5.26	5760	58.1	1250	55.2	1440	27.5
Percent Moisture	Extracted:												
	Analyzed:	Apr-23-19	Apr-23-19 12:10		12:10	Apr-23-19 12:10		Apr-23-19 12:10		Apr-23-19 12:10		Apr-23-19 12:1	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.16		2.83		4.96		13.4		9.30		9.49	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Debbie Simmons Project Manager

for

GHD-Albuquerque, NM

Project Manager: Jeff Walker
Hunt APO State #1
088210/53
01-MAY-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429), North Carolina (483) Xenco-Lakeland: Florida (E84098)





01-MAY-19

Project Manager: **Jeff Walker GHD-Albuquerque**, **NM**6121 Indian School Rd. NE Suite 200

Albuquerque, NM 87110

Reference: XENCO Report No(s): 621828

Hunt APO State #1

Project Address: Lea County, NM

Jeff Walker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 621828. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 621828 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Debbie Sinn

Debbie Simmons

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 621828



GHD-Albuquerque, NM, Albuquerque, NM

Hunt APO State #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-088210-53 041519-MM-B-1-4'	S	04-15-19 13:51	4 ft	621828-001
S-088210-53 041619-MM-SW-1-2'	S	04-16-19 12:23	2 ft	621828-002
S-088210-53 041819-MM-SW-2-2'	S	04-18-19 09:35	2 ft	621828-003
S-088210-53 041819-MM-SW-3-2'	S	04-18-19 09:52	2 ft	621828-004
S-088210-53 041819-MM-SW-4-2'	S	04-18-19 10:38	2 ft	621828-005
S-088210-53 041819-MM-B-2-4'	S	04-18-19 10:20	4 ft	621828-006

CASE NARRATIVE

Client Name: GHD-Albuquerque, NM Project Name: Hunt APO State #1

 Project ID:
 088210/53
 Report Date:
 01-MAY-19

 Work Order Number(s):
 621828
 Date Received:
 04/22/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





GHD-Albuquerque, NM, Albuquerque, NM

Hunt APO State #1

Date Collected: 04.15.19 13.51

S-088210-53 041519-MM-B-1-4' Sample Id:

Matrix: Soil Date Received:04.22.19 09.30

Lab Sample Id: 621828-001

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst:

% Moisture: 7.16

Date Prep: 04.25.19 17.00 Basis:

Dry Weight

Seq Number: 3086982

CHE

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1340	26.7	mg/kg	04.26.19 08.42		5





GHD-Albuquerque, NM, Albuquerque, NM

Hunt APO State #1

Sample Id: S-088210-53 041619-MM-SW-1-2'

Matrix: Soil

Date Received:04.22.19 09.30

Lab Sample Id: 621828-002

Date Collected: 04.16.19 12.23

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture: 2.83

Analyst: CHE

Date Prep: 04.25.19 17.00

Basis:

Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	403	5.09	mg/kg	04.26.19.08.47		1





GHD-Albuquerque, NM, Albuquerque, NM

Hunt APO State #1

Sample Id: S-088210-53 041819-MM-SW-2-2'

Matrix: Soil

Date Received:04.22.19 09.30

Lab Sample Id: 621828-003

CHE

Date Collected: 04.18.19 09.35

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst:

% Moisture: 4.96

Date Prep:

04.25.19 17.00

Basis: Dry Weight

Diy Weigi

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	607	5.26	mg/kg	04.26.19 09.03		1





GHD-Albuquerque, NM, Albuquerque, NM

Hunt APO State #1

Sample Id: S-088210-53 041819-MM-SW-3-2'

Matrix: Soil

Date Received:04.22.19 09.30

Lab Sample Id: 621828-004

Date Collected: 04.18.19 09.52

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture: 13.37

Analyst: CHE

Date Prep: 04.25.19 17.00

Basis: Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5760	58.1	mg/kg	04.26.19 08.53		10





GHD-Albuquerque, NM, Albuquerque, NM

Hunt APO State #1

Sample Id: S-088210-53 041819-MM-SW-4-2'

Matrix: Soil

Date Received:04.22.19 09.30

Lab Sample Id: 621828-005

Date Collected: 04.18.19 10.38

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture: 9.3

Analyst: CHE

Date Prep: 04.25.19 17.00

Basis: Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1250	55.2	mg/kg	04.26.19 08.58		10





GHD-Albuquerque, NM, Albuquerque, NM

Hunt APO State #1

S-088210-53 041819-MM-B-2-4' Sample Id:

Matrix: Soil Date Received:04.22.19 09.30

Lab Sample Id: 621828-006

Date Collected: 04.18.19 10.20

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE % Moisture: 9.49

CHE

Analyst:

04.25.19 17.00 Date Prep:

Basis: Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1440	27.5	mg/kg	04.26.19 09.20		5



Flagging Criteria





- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 621828

GHD-Albuquerque, NM

Hunt APO State #1

Analytical Method: Inorganic Anions by EPA 300/300.1

Matrix: Solid

Date Prep: 04.25.19

Seq Number: 3086982 MB Sample Id:

LCS Sample Id: 7676568-1-BLK

250

LCSD Sample Id: 7676568-1-BSD

Prep Method:

MR

7676568-1-BKS

Parameter

Spike Result Amount

LCS LCS Result %Rec

99

LCSD %Rec

Limits %RPD RPD Limit Units Analysis Date

Chloride

< 0.858

248

LCSD Result 251

100 90-110

20

04.25.19 19:16 mg/kg

E300P

Flag

Analytical Method: Inorganic Anions by EPA 300/300.1

Result

13.2

Matrix: Soil

Prep Method: Date Prep:

E300P

Seq Number:

3086982

04.25.19

Parent Sample Id:

621825-016

MS Sample Id: 621825-016 S

MSD Sample Id: 621825-016 SD

Parameter

Parent

Spike

MS MS Result %Rec

282

MSD MSD %Rec

107

Limits

%RPD RPD Limit Units

Analysis Flag

Chloride

Amount 252

107

Result 283

90-110

20 mg/kg

Date 04.25.19 19:32

Analytical Method: Inorganic Anions by EPA 300/300.1

3086982

Matrix: Soil

263

Prep Method:

0

E300P

Date Prep:

mg/kg

04.25.19

Parent Sample Id:

621828-003

MS Sample Id:

621828-003 S

MSD Sample Id: 621828-003 SD

Parameter

Seq Number:

MS

847

MSD

MSD

94

%RPD RPD Limit Units Limits

Analysis

Parent Spike Result Amount

607

MS Result %Rec

Result 91

%Rec 853

90-110

20

04.26.19 09:09

Flag Date

Seq Number:

Chloride

Analytical Method: Percent Moisture 3086591

Matrix: Solid

Parameter

Percent Moisture

MB Sample Id: 3086591-1-BLK

MB Result

0.110

Units

%

Analysis Date

Flag 04.23.19 12:10 В

Analytical Method: Percent Moisture 3086591

Matrix: Soil

Parent Sample Id: Parameter

Seq Number:

621828-001

Parent

MD

MD Sample Id: 621828-001 D

2

%RPD RPD Limit Units

Analysis Flag

Percent Moisture

Result 7.16 Result 7.31

20

%

Date 04.23.19 12:10

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



Address: Company Name: Project Manager:

C1508

Address:

Bill to: (if different) Company Name:

Midland

Program: UST/PST ☐ PRP ☐ Brownfields ☐RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

Page

으

Chain of Custody

Work Order No: (1)

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

City, State ZIP: Albagyをなって、NIM、87110 City, State ZIP: Phone: 505 884 0677 Email:		Reporting:Level II	Level IV 🗌
Project Name: Hart APO State #3 Turn Around	ANALYSIS REQUEST	EST Work Order Notes	r Notes
er:			
Sampler's Name: Michael Moff H Due Date:	5		
SAMPLE RECEIPT Temp Blank: Yes No Wet loe: (res) No	•		
Thermometer ID	lon		
Mes No R8			
Yes No (N/A) Correction Factor: O.	(TAT starts the day recevied by the	ecevied by the
Sample Custody Seals: Yes No (N/A) Total Containers:	•	lab, if received by 4:30pm	by 4:30pm
Sample Identification Matrix Sampled Sampled Depth	Tol	Sample Comments	mments
5082033044444 Soil 4115119 1351 4 1	~		
1-2' 416M 1723 2'			
01/8/10			
6			
75-023210-53-041394-MM-5607-7-2 4/18/19 1038 2			
> 5-0832210-53-041814:WWY-B-2-4 4/18/19 1020 4 1			
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI (Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA	Sb As Ba Be B Cd Ca Cr Co Cu Fe Sb As Ba Be Cd Cr Co Cu Pb Mn	K Se Ag SiO2 Na Sr Ti Sn U 1631/245.1/7470	V Zn / 7471 : Hg
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These	n client company to Xenco, its affiliates and subcontractors. I ny losses or expenses incurred by the client if such losses are submitted to Xenco, but not analyzed. These terms will be en	subcontractors. It assigns standard terms and conditions if such losses are due to circumstances beyond the control etrms will be enforced unless previously negotiated.	
Relinquished by: (Signature) Received by: (Signature)	Date/Time Relinquished by: (Signature)	Receixed by: (Signature)	Date/Time
"Medinal Modernt	2	tell be	11.6 61/4
Control of Food by	4/19/19 14-00 4	1286 CA122	CCHO BILL

十80 1830

Released to Imaging: 6/30/2023 10:36:43 AM



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD-Albuquerque, NM

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 04.22.2019 09.30.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 621828

Temperature Measuring device used: R8

Sa	imple Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/	cooler? N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/	received? Yes	
#10 Chain of Custody agrees with sample label	s/matrix? Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test	(s)? Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace	? N/A	

must be completed for after-flours	delivery of samples prior to plac	ing in the remigerator
Analyst:	PH Device/Lot#:	
Checklist completed by	r:Katie Lowe	Date: <u>04.22.2019</u>
Checklist reviewed by	· Debbie Servinon	Date: 04.23.2019

Debbie Simmons

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1572-1

Laboratory Sample Delivery Group: 11224665

Client Project/Site: Hunt APO State #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by: 11/19/2021 4:27:28 PM

Chad Bechtold, Project Manager (813)690-3563

chad.bechtold@eurofinset.com

Designee for

Debbie Simmons, Project Manager (832)986-6768

debbie.simmons@eurofinset.com

.....LINKS

Review your project results through

Total Access

Ask—The Expert

Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 6/30/2023 10:36:43 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

_

5

0

9

11

13

14

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Laboratory Job ID: 890-1572-1 SDG: 11224665

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	6
Surrogate Summary	23
QC Sample Results	25
QC Association Summary	32
Lab Chronicle	38
	45
Method Summary	46
Sample Summary	47
Chain of Custody	48
Receipt Checklists	54

Γ 🛆	
U	

Qualifier Description

Result exceeded calibration range.

Indicates the analyte was analyzed for but not detected.

Definitions/Glossary

Client: GHD Services Inc.

Job ID: 890-1572-1

Project/Site: Hunt APO State #1

SDG: 11224665

Qualifiers

GC VOA
Qualifier

В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.

Glossary

Ε

NEG

POS

PQL

PRES

QC RER

RL

RPD

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Eurofins Xenco, Carlsbad

11/19/2021

Page 3 of 55

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Glossary (Continued)

Abbreviation These commonly used abbreviations may or may not be present in this report.

TNTC Too Numerous To Count

3

А

5

7

9

. .

12

10

114

Case Narrative

Client: GHD Services Inc.

Job ID: 890-1572-1

Project/Site: Hunt APO State #1

SDG: 11224665

Job ID: 890-1572-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1572-1

Receipt

The samples were received on 11/12/2021 1:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.2°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA2 (890-1572-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-12224/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-12229 and analytical batch 880-12237 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: TP31-2 (890-1572-18). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (MB 880-12340/1-A) and (890-1551-A-2-B). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

2

2

4

5

_

8

9

11

13

| 1 4

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: TP19-3 Lab Sample ID: 890-1572-1 Date Collected: 11/12/21 08:10

Matrix: Solid

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000610	J	0.00201	0.000387	mg/Kg		11/15/21 08:07	11/15/21 16:38	
Toluene	0.000657	J	0.00201	0.000458	mg/Kg		11/15/21 08:07	11/15/21 16:38	
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		11/15/21 08:07	11/15/21 16:38	
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		11/15/21 08:07	11/15/21 16:38	
o-Xylene	0.000523	J	0.00201	0.000345	mg/Kg		11/15/21 08:07	11/15/21 16:38	
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		11/15/21 08:07	11/15/21 16:38	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	113		70 - 130				11/15/21 08:07	11/15/21 16:38	
1,4-Difluorobenzene (Surr)	97		70 - 130				11/15/21 08:07	11/15/21 16:38	•
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00179	J	0.00402	0.00101	mg/Kg			11/18/21 16:13	
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	22.0	J	49.9	15.0	mg/Kg			11/16/21 13:46	•
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		11/15/21 14:49	11/15/21 20:36	•
Diesel Range Organics (Over	22.0	J	49.9	15.0	mg/Kg		11/15/21 14:49	11/15/21 20:36	,
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 14:49	11/15/21 20:36	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	108		70 - 130				11/15/21 14:49	11/15/21 20:36	
o-Terphenyl	122		70 - 130				11/15/21 14:49	11/15/21 20:36	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: TP20-2 Lab Sample ID: 890-1572-2 Date Collected: 11/12/21 08:15 **Matrix: Solid**

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		11/15/21 08:07	11/15/21 16:59	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		11/15/21 08:07	11/15/21 16:59	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		11/15/21 08:07	11/15/21 16:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		11/15/21 08:07	11/15/21 16:59	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		11/15/21 08:07	11/15/21 16:59	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		11/15/21 08:07	11/15/21 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/15/21 08:07	11/15/21 16:59	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/15/21 08:07	11/15/21 16:59	1

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: TP20-2

Lab Sample ID: 890-1572-2 Date Collected: 11/12/21 08:15 Date Received: 11/12/21 13:18

336

Matrix: Solid

11/18/21 11:56

Method: Total BTEX - Total BTEX Calculation Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Total BTEX <0.00399 U 0.00399 0.00101 mg/Kg 11/18/21 16:13 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 59.4 50.0 15.0 mg/Kg 11/16/21 13:46 Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Dil Fac Analyte D Prepared Analyzed 50.0 **Gasoline Range Organics** 15.0 11/15/21 14:49 11/15/21 21:20 25.3 J mg/Kg (GRO)-C6-C10 50.0 **Diesel Range Organics (Over** 16.0 J 15.0 mg/Kg 11/15/21 14:49 11/15/21 21:20 C10-C28) **Oll Range Organics (Over** 50.0 15.0 mg/Kg 11/15/21 14:49 11/15/21 21:20 18.1 J C28-C36) %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1-Chlorooctane 106 70 - 130 11/15/21 14:49 11/15/21 21:20 119 70 - 130 11/15/21 14:49 11/15/21 21:20 o-Terphenyl Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac

Client Sample ID: TP21-2 Lab Sample ID: 890-1572-3 Date Collected: 11/12/21 08:25 **Matrix: Solid**

4.95

0.850 mg/Kg

Date Received: 11/12/21 13:18

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		11/15/21 08:07	11/15/21 17:19	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		11/15/21 08:07	11/15/21 17:19	1
Ethylbenzene	0.000953	J	0.00200	0.000566	mg/Kg		11/15/21 08:07	11/15/21 17:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		11/15/21 08:07	11/15/21 17:19	1
o-Xylene	0.000574	J	0.00200	0.000345	mg/Kg		11/15/21 08:07	11/15/21 17:19	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		11/15/21 08:07	11/15/21 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				11/15/21 08:07	11/15/21 17:19	1
1,4-Difluorobenzene (Surr)	91		70 - 130				11/15/21 08:07	11/15/21 17:19	1
Method: Total BTEX - Total BT	EX Calculation								
Method: Total BTEX - Total BT Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte			RL 0.00401	MDL 0.00101		<u>D</u>	Prepared	Analyzed 11/18/21 16:13	Dil Fac
Analyte Total BTEX	Result 0.00153	J				<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran	Result 0.00153	J		0.00101		<u>D</u>	Prepared Prepared		Dil Fac
	Result 0.00153	J O) (GC)	0.00401	0.00101 MDL	mg/Kg		<u> </u>	11/18/21 16:13	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result 0.00153 age Organics (DR Result 52.9	J O) (GC) Qualifier	0.00401	0.00101 MDL	mg/Kg		<u> </u>	11/18/21 16:13 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result 0.00153 age Organics (DResult 52.9 ange Organics (Dignal of the context	J O) (GC) Qualifier	0.00401	0.00101 MDL 15.0	mg/Kg		<u> </u>	11/18/21 16:13 Analyzed	1

Eurofins Xenco, Carlsbad

Released to Imaging: 6/30/2023 10:36:43 AM

Job ID: 890-1572-1

Client: GHD Services Inc. Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: TP21-2

Lab Sample ID: 890-1572-3

Date Collected: 11/12/21 08:25 Date Received: 11/12/21 13:18

Matrix: Solid

Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC) (C	continued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	21.1	J	49.9	15.0	mg/Kg		11/15/21 14:49	11/15/21 21:41	1
C10-C28)									
Oll Range Organics (Over	15.6	J	49.9	15.0	mg/Kg		11/15/21 14:49	11/15/21 21:41	1
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/15/21 14:49	11/15/21 21:41	1
o-Terphenyl	121		70 - 130				11/15/21 14:49	11/15/21 21:41	1
- Method: 300.0 - Anions, Ion C	hromatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		4.98	0.855	mg/Kg			11/18/21 12:01	

Lab Sample ID: 890-1572-4

Client Sample ID: TP22-2 Date Collected: 11/12/21 08:35

Matrix: Solid

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		11/15/21 08:07	11/15/21 17:40	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		11/15/21 08:07	11/15/21 17:40	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		11/15/21 08:07	11/15/21 17:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		11/15/21 08:07	11/15/21 17:40	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		11/15/21 08:07	11/15/21 17:40	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		11/15/21 08:07	11/15/21 17:40	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				11/15/21 08:07	11/15/21 17:40	1
1,4-Difluorobenzene (Surr)	82		70 - 130				11/15/21 08:07	11/15/21 17:40	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			0.00403	0.00102	mg/Kg				
•	•	, , ,			0 0	_			
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Rang Analyte Total TPH	•	Qualifier			0 0	<u>D</u>	Prepared	Analyzed 11/16/21 13:46	
Analyte Total TPH	Result 33.7	Qualifier J	RL	MDL	Unit	<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result 33.7	Qualifier J	RL	MDL 15.0	Unit	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result 33.7	Qualifier J RO) (GC) Qualifier	RL 50.0	MDL 15.0 MDL	Unit mg/Kg			11/16/21 13:46	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 33.7 nge Organics (D	Qualifier J RO) (GC) Qualifier U	RL	MDL 15.0	Unit mg/Kg		Prepared	11/16/21 13:46 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 33.7 nge Organics (D Result <50.0	Qualifier J RO) (GC) Qualifier U	RL 50.0	MDL 15.0 MDL 15.0	Unit mg/Kg Unit mg/Kg		Prepared 11/15/21 14:49	11/16/21 13:46 Analyzed 11/15/21 22:03	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result	Qualifier J RO) (GC) Qualifier U J	RL 50.0 50.0	MDL 15.0 MDL 15.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/15/21 14:49 11/15/21 14:49	11/16/21 13:46 Analyzed 11/15/21 22:03 11/15/21 22:03	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 33.7 nge Organics (D) Result <50.0 17.8 15.9	Qualifier J RO) (GC) Qualifier U J	RL 50.0 50.0 50.0	MDL 15.0 MDL 15.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/15/21 14:49 11/15/21 14:49 11/15/21 14:49	Analyzed 11/15/21 22:03 11/15/21 22:03	Dil Face 1 Dil Face 1 Dil Face 1 Dil Face 1

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: TP22-2 Lab Sample ID: 890-1572-4

Date Collected: 11/12/21 08:35

Date Received: 11/12/21 13:18

Matrix: Solid

 Method: 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 1170
 4.99
 0.857
 mg/Kg
 11/18/21 12:06
 1

Client Sample ID: TP23-S

Date Collected: 11/12/21 08:50

Lab Sample ID: 890-1572-5

Matrix: Solid

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		11/15/21 08:07	11/15/21 18:00	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		11/15/21 08:07	11/15/21 18:00	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		11/15/21 08:07	11/15/21 18:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		11/15/21 08:07	11/15/21 18:00	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		11/15/21 08:07	11/15/21 18:00	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		11/15/21 08:07	11/15/21 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/15/21 08:07	11/15/21 18:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/15/21 08:07	11/15/21 18:00	1

Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			11/18/21 16:13	1

Method. 6015 MM - Dieser Kange O	rgariics (DRC	<i>)</i> (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.7	J	49.9	15.0	mg/Kg			11/16/21 13:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		11/15/21 14:49	11/15/21 22:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 14:49	11/15/21 22:25	1
Oll Range Organics (Over C28-C36)	15.7	J	49.9	15.0	mg/Kg		11/15/21 14:49	11/15/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	11/15/21	1 14:49	11/15/21 22:25	1
o-Terphenyl	112		70 - 130	11/15/21	14:49	11/15/21 22:25	1

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	794	4.97	0.853 mg/Kg			11/18/21 12:11	1

Client Sample ID: TP23-2

Date Collected: 11/12/21 09:00

Lab Sample ID: 890-1572-6

Matrix: Solid

Date Received: 11/12/21 13:18

Method: 8021B - Volatile Organi	c Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/15/21 08:07	11/15/21 18:21	1
Toluene	0.00101	J	0.00200	0.000456	mg/Kg		11/15/21 08:07	11/15/21 18:21	1
Ethylbenzene	0.00645		0.00200	0.000565	mg/Kg		11/15/21 08:07	11/15/21 18:21	1

Eurofins Xenco, Carlsbad

Page 9 of 55

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: TP23-2 Lab Sample ID: 890-1572-6

Date Collected: 11/12/21 09:00 Matrix: Solid
Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00122	J	0.00400	0.00101	mg/Kg		11/15/21 08:07	11/15/21 18:21	
o-Xylene	0.000440	J	0.00200	0.000344	mg/Kg		11/15/21 08:07	11/15/21 18:21	
Xylenes, Total	0.00166	J	0.00400	0.00101	mg/Kg		11/15/21 08:07	11/15/21 18:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	129		70 - 130				11/15/21 08:07	11/15/21 18:21	
1,4-Difluorobenzene (Surr)	90		70 - 130				11/15/21 08:07	11/15/21 18:21	
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00912		0.00400	0.00101	mg/Kg			11/18/21 16:13	
- Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	21.7	J	49.8	14.9	mg/Kg			11/17/21 13:26	
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	• • •	Qualifier	DI.	MDI	Unit	_	Duamanad		
		Quannon	RL	MDL		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.8		49.8	14.9	mg/Kg	— -	11/15/21 09:27	Analyzed 11/15/21 15:47	
Gasoline Range Organics (GRO)-C6-C10						_			
(GRO)-C6-C10 Diesel Range Organics (Over				14.9					-
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 21.7	U*1	49.8	14.9	mg/Kg		11/15/21 09:27 11/15/21 09:27	11/15/21 15:47	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8	U*1	49.8	14.9	mg/Kg	5	11/15/21 09:27	11/15/21 15:47	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 21.7	U*1 JB U	49.8	14.9	mg/Kg		11/15/21 09:27 11/15/21 09:27	11/15/21 15:47	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 21.7 <49.8	U*1 JB U	49.8 49.8 49.8	14.9	mg/Kg		11/15/21 09:27 11/15/21 09:27 11/15/21 09:27	11/15/21 15:47 11/15/21 15:47 11/15/21 15:47	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 21.7 <49.8 %Recovery	U*1 JB U	49.8 49.8 49.8 <i>Limits</i>	14.9	mg/Kg		11/15/21 09:27 11/15/21 09:27 11/15/21 09:27 Prepared	11/15/21 15:47 11/15/21 15:47 11/15/21 15:47 Analyzed	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 21.7 <49.8 **Recovery 87 89	U *1 J B U Qualifier	49.8 49.8 49.8 Limits 70 - 130	14.9	mg/Kg	U	11/15/21 09:27 11/15/21 09:27 11/15/21 09:27 Prepared 11/15/21 09:27	11/15/21 15:47 11/15/21 15:47 11/15/21 15:47 Analyzed 11/15/21 15:47	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 21.7 <49.8 %Recovery 87 89 romatography -	U *1 J B U Qualifier	49.8 49.8 49.8 Limits 70 - 130	14.9	mg/Kg mg/Kg mg/Kg	U	11/15/21 09:27 11/15/21 09:27 11/15/21 09:27 Prepared 11/15/21 09:27	11/15/21 15:47 11/15/21 15:47 11/15/21 15:47 Analyzed 11/15/21 15:47	Dil Fac

Client Sample ID: TP24-2

Date Collected: 11/12/21 09:10

Lab Sample ID: 890-1572-7

Matrix: Solid

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		11/15/21 08:07	11/15/21 18:41	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		11/15/21 08:07	11/15/21 18:41	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		11/15/21 08:07	11/15/21 18:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		11/15/21 08:07	11/15/21 18:41	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		11/15/21 08:07	11/15/21 18:41	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		11/15/21 08:07	11/15/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/15/21 08:07	11/15/21 18:41	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/15/21 08:07	11/15/21 18:41	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	IJ	0.00402	0.00102	mg/Kg			11/18/21 16:13	1

Job ID: 890-1572-1

SDG: 11224665

Client Sample Results

Client: GHD Services Inc.
Project/Site: Hunt APO State #1

Client Sample ID: TP24-2 Lab Sample ID: 890-1572-7

Date Collected: 11/12/21 09:10

Date Received: 11/12/21 13:18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.2	J	49.9	15.0	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	24.1	J *1	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 16:09	1
(GRO)-C6-C10									
Diesel Range Organics (Over	23.1	JB	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 16:09	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/15/21 09:27	11/15/21 16:09	1
o-Terphenyl	109		70 - 130				11/15/21 09:27	11/15/21 16:09	1

Client Sample ID: TP25-2 Lab Sample ID: 890-1572-8

4.95

MDL Unit

0.850 mg/Kg

Prepared

D

Analyzed

11/18/21 12:31

Dil Fac

Result Qualifier

1310

Date Collected: 11/12/21 09:20 Matrix: Solid

Date Received: 11/12/21 13:18

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		11/15/21 08:07	11/15/21 19:01	1
Toluene	< 0.00199	U	0.00199	0.000453	mg/Kg		11/15/21 08:07	11/15/21 19:01	1
Ethylbenzene	< 0.00199	U	0.00199	0.000562	mg/Kg		11/15/21 08:07	11/15/21 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		11/15/21 08:07	11/15/21 19:01	1
o-Xylene	< 0.00199	U	0.00199	0.000342	mg/Kg		11/15/21 08:07	11/15/21 19:01	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		11/15/21 08:07	11/15/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/15/21 08:07	11/15/21 19:01	1
1,4-Difluorobenzene (Surr)	76		70 - 130				11/15/21 08:07	11/15/21 19:01	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
•	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 49.8	MDL 14.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/17/21 13:26	Dil Fac
Analyte	Result 18.9	Qualifier J				<u>D</u>	Prepared		
Analyte Total TPH : Method: 8015B NM - Diesel Ranç	Result 18.9 ge Organics (D	Qualifier J		14.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 18.9 ge Organics (D	Qualifier J RO) (GC) Qualifier	49.8	14.9	mg/Kg	=		11/17/21 13:26	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 18.9 ge Organics (D Result	Qualifier J RO) (GC) Qualifier U *1	49.8	14.9 MDL 14.9	mg/Kg	=	Prepared	11/17/21 13:26 Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 18.9 ge Organics (D Result Result	Qualifier J RO) (GC) Qualifier U*1 JB	49.8 RL 49.8	14.9 MDL 14.9 14.9	mg/Kg Unit mg/Kg	=	Prepared 11/15/21 09:27	11/17/21 13:26 Analyzed 11/15/21 16:31	Dil Fac
Analyte Total TPH	Result 18.9 ge Organics (D Result <49.8 18.9	Qualifier J RO) (GC) Qualifier U*1 JB	49.8 RL 49.8 49.8	14.9 MDL 14.9 14.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/15/21 09:27 11/15/21 09:27	11/17/21 13:26 Analyzed 11/15/21 16:31 11/15/21 16:31	Dil Fac

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Date Received: 11/12/21 13:18

Job ID: 890-1572-1

SDG: 11224665

Client Sample ID: TP25-2 Date Collected: 11/12/21 09:20

Lab Sample ID: 890-1572-8

Matrix: Solid

Method: 8015B NM - Diesel Range	Organics (DRO) (GC) (Continued)
---------------------------------	---------------------------------

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99	70 - 130	11/15/21 09:27	11/15/21 16:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1240		4.96	0.851	mg/Kg			11/18/21 12:35	1

Client Sample ID: TP26-2 Lab Sample ID: 890-1572-9 Matrix: Solid

Date Collected: 11/12/21 09:30 Date Received: 11/12/21 13:18

Method: 8021B - Volatile Organic Compounds (GC)	
Method: 8021B - Volatile Ordanic Combounds (GC)	

motifical collins of ga	ino compoundo (
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		11/15/21 08:07	11/15/21 19:22	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		11/15/21 08:07	11/15/21 19:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		11/15/21 08:07	11/15/21 19:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		11/15/21 08:07	11/15/21 19:22	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		11/15/21 08:07	11/15/21 19:22	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		11/15/21 08:07	11/15/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/15/21 08:07	11/15/21 19:22	1

Surrogate	%Recovery Qual	ilifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113	70 - 130	11/15/21 08:07	11/15/21 19:22	1
1,4-Difluorobenzene (Surr)	99	70 - 130	11/15/21 08:07	11/15/21 19:22	1
_					

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	0.00101	ma/Ka				11/18/21 16:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.3	J	49.9	15.0	mg/Kg			11/17/21 13:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 16:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	22.3	JB	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 16:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prep	oared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	11/15/2	21 09:27	11/15/21 16:53	1
o-Terphenyl	102		70 - 130	11/15/2	21 09:27	11/15/21 16:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1230	5.02	0.862 mg/Kg			11/18/21 12:40	1

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: TP27-S Lab Sample ID: 890-1572-10

Date Collected: 11/12/21 09:40 Matrix: Solid Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		11/15/21 08:07	11/15/21 19:42	1
Toluene	0.000453	J	0.00198	0.000452	mg/Kg		11/15/21 08:07	11/15/21 19:42	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		11/15/21 08:07	11/15/21 19:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		11/15/21 08:07	11/15/21 19:42	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		11/15/21 08:07	11/15/21 19:42	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		11/15/21 08:07	11/15/21 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				11/15/21 08:07	11/15/21 19:42	1
1,4-Difluorobenzene (Surr)	95		70 - 130				11/15/21 08:07	11/15/21 19:42	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result			MDL 15.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/17/21 13:26	
Total TPH	38.0 ge Organics (D	J RO) (GC)	50.0	15.0	mg/Kg		Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte	38.0 ge Organics (D	J			mg/Kg	<u>D</u>	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	38.0 ge Organics (D	J RO) (GC)	50.0	15.0	mg/Kg		<u> </u>	11/17/21 13:26	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	38.0 ge Organics (D Result	J RO) (GC) Qualifier	50.0	15.0 MDL	mg/Kg		Prepared	11/17/21 13:26 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result 16.5	RO) (GC) Qualifier J*1 JB	50.0 RL 50.0	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg		Prepared 11/15/21 09:27	11/17/21 13:26 Analyzed 11/15/21 17:36	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	38.0 ge Organics (D Result 16.5 21.5	GC) (GC) Qualifier J*1 JB	50.0 RL 50.0 50.0	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/15/21 09:27 11/15/21 09:27	Analyzed 11/15/21 17:36 11/15/21 17:36	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	38.0 ge Organics (D Result 16.5 21.5 <50.0	GO) (GC) Qualifier J*1 JB	50.0 RL 50.0 50.0 50.0	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/15/21 09:27 11/15/21 09:27 11/15/21 09:27	Analyzed 11/15/21 17:36 11/15/21 17:36 11/15/21 17:36	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	38.0 ge Organics (D Result 16.5 21.5 <50.0 %Recovery	GO) (GC) Qualifier J*1 JB	50.0 RL 50.0 50.0 50.0 Limits	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/15/21 09:27 11/15/21 09:27 11/15/21 09:27 Prepared	Analyzed 11/15/21 17:36 11/15/21 17:36 11/15/21 17:36 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	38.0 ge Organics (D Result 16.5 21.5 <50.0 %Recovery 87 91	GRO) (GC) Qualifier J*1 J B U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/15/21 09:27 11/15/21 09:27 11/15/21 09:27 Prepared 11/15/21 09:27	Analyzed 11/15/21 17:36 11/15/21 17:36 11/15/21 17:36 Analyzed 11/15/21 17:36	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	38.0 ge Organics (D Result 16.5 21.5 <50.0 %Recovery 87 91 omatography -	GRO) (GC) Qualifier J*1 J B U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/15/21 09:27 11/15/21 09:27 11/15/21 09:27 Prepared 11/15/21 09:27	Analyzed 11/15/21 17:36 11/15/21 17:36 11/15/21 17:36 Analyzed 11/15/21 17:36	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: TP27-2 Lab Sample ID: 890-1572-11

Date Collected: 11/12/21 09:45 **Matrix: Solid** Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00115	J	0.00199	0.000383	mg/Kg		11/16/21 15:49	11/16/21 19:08	1
Toluene	0.00234		0.00199	0.000454	mg/Kg		11/16/21 15:49	11/16/21 19:08	1
Ethylbenzene	0.000637	J	0.00199	0.000563	mg/Kg		11/16/21 15:49	11/16/21 19:08	1
m-Xylene & p-Xylene	0.00236	J	0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 19:08	1
o-Xylene	0.000649	J	0.00199	0.000343	mg/Kg		11/16/21 15:49	11/16/21 19:08	1
Xylenes, Total	0.00301	J	0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				11/16/21 15:49	11/16/21 19:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/16/21 15:49	11/16/21 19:08	1

Eurofins Xenco, Carlsbad

Client: GHD Services Inc.
Project/Site: Hunt APO State #1

Job ID: 890-1572-1 SDG: 11224665

Client Sample ID: TP27-2

Date Collected: 11/12/21 09:45 Date Received: 11/12/21 13:18 Lab Sample ID: 890-1572-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00714		0.00398	0.00101	mg/Kg			11/18/21 16:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.2	J	49.9	15.0	mg/Kg			11/17/21 13:26	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	17.1	J *1	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 17:58	1
(GRO)-C6-C10									
Diesel Range Organics (Over	20.1	JB	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 17:58	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				11/15/21 09:27	11/15/21 17:58	1
o-Terphenyl	92		70 - 130				11/15/21 09:27	11/15/21 17:58	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	541		4.95	0.850	mg/Kg			11/18/21 12:50	

Client Sample ID: TP28-2

Date Collected: 11/12/21 09:50

Lab Sample ID: 890-1572-12

Matrix: Solid

Date Collected: 11/12/21 09:50 Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		11/16/21 15:49	11/16/21 19:29	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		11/16/21 15:49	11/16/21 19:29	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		11/16/21 15:49	11/16/21 19:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		11/16/21 15:49	11/16/21 19:29	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		11/16/21 15:49	11/16/21 19:29	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		11/16/21 15:49	11/16/21 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				11/16/21 15:49	11/16/21 19:29	1
			70 100				44440044540	11/10/01 10 00	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTE) Analyte		Qualifier	70 ₋ 130	MDL	Unit	D	11/16/21 15:49 Prepared	11/16/21 19:29 Analyzed	
			70 - 130				11/16/21 15:49	11/16/21 19:29	1
Method: Total BTEX - Total BTEX Analyte	K Calculation	Qualifier	70 - 130 RL 0.00398	MDL 0.00100	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/18/21 16:13	
Method: Total BTEX - Total BTEX Analyte Total BTEX	Calculation Result <0.00398	U	RL			<u>D</u>		Analyzed	•
Method: Total BTEX - Total BTEX Analyte	Calculation Result <0.00398 Organics (DR6)	U	RL	0.00100		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range	Calculation Result <0.00398 Organics (DR6)	U O) (GC) Qualifier	RL 0.00398	0.00100	mg/Kg		Prepared	Analyzed 11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BTE) Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Calculation Result <0.00398 Organics (DRORESULT) 22.8	O) (GC) Qualifier J		0.00100 MDL	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Calculation Result <0.00398 Corganics (DRO Result 22.8 Ge Organics (DIO Corganics	O) (GC) Qualifier J		0.00100 MDL 15.0	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BTE) Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Calculation Result <0.00398 Corganics (DRO Result 22.8 Ge Organics (DIO Corganics	O) (GC) Qualifier J RO) (GC) Qualifier	RL 0.00398	0.00100 MDL 15.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/18/21 16:13 Analyzed 11/17/21 13:26	Dil Fac

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: TP28-2 Lab Sample ID: 890-1572-12 Date Collected: 11/12/21 09:50

Matrix: Solid

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/15/21 09:27	11/15/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/15/21 09:27	11/15/21 18:19	1
o-Terphenyl	125		70 - 130				11/15/21 09:27	11/15/21 18:19	1

Method: 300.0 - Anions, Ion Chromato	graphy -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	862		5.03	0.863	mg/Kg			11/18/21 13:05	1

Client Sample ID: TP29-S Lab Sample ID: 890-1572-13 Date Collected: 11/12/21 10:00 **Matrix: Solid**

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000799	J	0.00199	0.000383	mg/Kg		11/16/21 15:49	11/16/21 19:49	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		11/16/21 15:49	11/16/21 19:49	•
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		11/16/21 15:49	11/16/21 19:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 19:49	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		11/16/21 15:49	11/16/21 19:49	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				11/16/21 15:49	11/16/21 19:49	1
1,4-Difluorobenzene (Surr)	71		70 - 130				11/16/21 15:49	11/16/21 19:49	1
· Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			11/18/21 16:13	1
- Method: 8015 NM - Diesel Ran	ige Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.1		49.9	15.0	mg/Kg			11/17/21 13:26	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 18:40	1
(GRO)-C6-C10									
Diesel Range Organics (Over	23.1	JB	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 18:40	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/15/21 09:27	11/15/21 18:40	1
o-Terphenyl	106		70 - 130				11/15/21 09:27	11/15/21 18:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 65.1 4.98 0.855 mg/Kg 11/18/21 13:10

Job ID: 890-1572-1

Client: GHD Services Inc. Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: TP29-2 Lab Sample ID: 890-1572-14 Date Collected: 11/12/21 10:10 Matrix: Solid Date Received: 11/12/21 13:18

Method: 8021B - Volatile Organic Analyte	-	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	- (0.00199		0.00199	0.000383	mg/Kg		11/16/21 15:49	11/16/21 20:09	Dilla
Toluene	0.000723		0.00199	0.000454	mg/Kg		11/16/21 15:49	11/16/21 20:09	
Ethylbenzene	< 0.00129		0.00199	0.000563	mg/Kg		11/16/21 15:49	11/16/21 20:09	
m-Xylene & p-Xylene	<0.00398		0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 20:09	
o-Xylene	< 0.00199		0.00199	0.000343	mg/Kg		11/16/21 15:49	11/16/21 20:09	
Xylenes, Total	<0.00398		0.00398	0.00101	0 0		11/16/21 15:49	11/16/21 20:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 - 130				11/16/21 15:49	11/16/21 20:09	
1,4-Difluorobenzene (Surr)	94		70 - 130				11/16/21 15:49	11/16/21 20:09	
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			11/18/21 16:13	
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH	24.2	J	50.0	15.0	mg/Kg			11/17/21 13:26	
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	15.0	mg/Kg		11/15/21 09:27	11/15/21 19:02	
Diesel Range Organics (Over C10-C28)	24.2	JB	50.0	15.0	mg/Kg		11/15/21 09:27	11/15/21 19:02	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/15/21 09:27	11/15/21 19:02	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130				11/15/21 09:27	11/15/21 19:02	
o-Terphenyl	106		70 - 130				11/15/21 09:27	11/15/21 19:02	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	52.4		4.97	0.853	mg/Kg			11/18/21 13:25	

Client Sample ID: TP30-S Lab Sample ID: 890-1572-15 Date Collected: 11/12/21 10:20 **Matrix: Solid**

Date Received: 11/12/21 13:18

Method: 8021B - Volatile Orga	•	•				_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		11/16/21 15:49	11/16/21 20:30	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		11/16/21 15:49	11/16/21 20:30	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		11/16/21 15:49	11/16/21 20:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 20:30	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		11/16/21 15:49	11/16/21 20:30	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 _ 130				11/16/21 15:49	11/16/21 20:30	1
1,4-Difluorobenzene (Surr)	93		70 - 130				11/16/21 15:49	11/16/21 20:30	1

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: TP30-S

Lab Sample ID: 890-1572-15

Date Collected: 11/12/21 10:20 Matrix: Solid
Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			11/18/21 16:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.4	J	49.8	14.9	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *1	49.8	14.9	mg/Kg		11/15/21 09:27	11/15/21 19:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	30.4	JB	49.8	14.9	mg/Kg		11/15/21 09:27	11/15/21 19:23	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		11/15/21 09:27	11/15/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/15/21 09:27	11/15/21 19:23	1
o-Terphenyl	106		70 - 130				11/15/21 09:27	11/15/21 19:23	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	761		4.95	0.850	mg/Kg			11/18/21 13:29	1

Client Sample ID: TP30-2 Lab Sample ID: 890-1572-16

Date Collected: 11/12/21 10:30 Matrix: Solid
Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		11/16/21 15:49	11/16/21 20:50	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		11/16/21 15:49	11/16/21 20:50	1
Ethylbenzene	0.000607	J	0.00201	0.000567	mg/Kg		11/16/21 15:49	11/16/21 20:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		11/16/21 15:49	11/16/21 20:50	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		11/16/21 15:49	11/16/21 20:50	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		11/16/21 15:49	11/16/21 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				11/16/21 15:49	11/16/21 20:50	1
	94		70 - 130				11/16/21 15:49	11/16/21 20:50	1
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTI Analyte	EX Calculation	Qualifier		MDL	Unit	D			
Method: Total BTEX - Total BT	EX Calculation					_			
	EX Calculation	Qualifier U	RL 0.00402	MDL 0.00101	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BTEA Analyte Total BTEX	EX Calculation Result <0.00402 ge Organics (DR	U (GC)	RL 0.00402	0.00101	mg/Kg	<u> </u>	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte	EX Calculation Result <0.00402 ge Organics (DR	U	RL		mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BTI Analyte Total BTEX Method: 8015 NM - Diesel Rang	EX Calculation Result <0.00402 ge Organics (DR	U (GC)	RL 0.00402	0.00101	mg/Kg		Prepared	Analyzed 11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BTI Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH	EX Calculation Result <0.00402 ge Organics (DR Result 113	O) (GC) Qualifier	RL 0.00402	0.00101 MDL	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BTI Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	EX Calculation Result <0.00402 ge Organics (DR Result 113 nge Organics (D	O) (GC) Qualifier	RL 0.00402	0.00101 MDL 15.0	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BTI Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra	EX Calculation Result <0.00402 ge Organics (DR Result 113 nge Organics (D	O) (GC) Qualifier RO) (GC)	RL 0.00402	0.00101 MDL 15.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/18/21 16:13 Analyzed 11/17/21 13:26	Dil Fac

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: TP30-2 Lab Sample ID: 890-1572-16 Date Collected: 11/12/21 10:30

Matrix: Solid

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/15/21 09:27	11/15/21 19:44	1
o-Terphenyl	113		70 - 130				11/15/21 09:27	11/15/21 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 441 4.99 11/18/21 13:34 Chloride 0.857 mg/Kg

Client Sample ID: TP31-S Lab Sample ID: 890-1572-17 Date Collected: 11/12/21 10:40 **Matrix: Solid**

Chloride

Released to Imaging: 6/30/2023 10:36:43 AM

Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		11/16/21 15:49	11/16/21 21:11	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		11/16/21 15:49	11/16/21 21:11	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		11/16/21 15:49	11/16/21 21:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		11/16/21 15:49	11/16/21 21:11	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		11/16/21 15:49	11/16/21 21:11	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		11/16/21 15:49	11/16/21 21:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/16/21 15:49	11/16/21 21:11	1
1,4-Difluorobenzene (Surr)	71		70 - 130				11/16/21 15:49	11/16/21 21:11	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			11/18/21 16:13	1

Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			11/18/21 16:13	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	27.5	J	49.9	15.0	mg/Kg			11/17/21 13:26	-
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 20:05	1
(GRO)-C6-C10									
Diesel Range Organics (Over	27.5	JB	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 20:05	•
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 20:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	109		70 - 130				11/15/21 09:27	11/15/21 20:05	
o-Terphenyl	119		70 - 130				11/15/21 09:27	11/15/21 20:05	:
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	0.,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

11/18/21 13:39

4.96

0.851 mg/Kg

347

Client: GHD Services Inc.

Job ID: 890-1572-1

Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: TP31-2 Lab Sample ID: 890-1572-18

Date Collected: 11/12/21 10:50

Date Received: 11/12/21 13:18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		11/16/21 15:49	11/16/21 21:31	
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		11/16/21 15:49	11/16/21 21:31	
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		11/16/21 15:49	11/16/21 21:31	
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		11/16/21 15:49	11/16/21 21:31	
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		11/16/21 15:49	11/16/21 21:31	
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		11/16/21 15:49	11/16/21 21:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130				11/16/21 15:49	11/16/21 21:31	
1,4-Difluorobenzene (Surr)	74		70 - 130				11/16/21 15:49	11/16/21 21:31	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH	Result 27.6	Qualifier J	RL 49.9	MDL 15.0	Unit mg/Kg	D	Prepared	Analyzed 11/17/21 13:26	Dil Fa
			49.9	10.0	mg/rtg			11/1//21 13.20	
Method: 8015B NM - Diesel Rang		Qualifier	RL	MDI	Unit	D	Prepared	Anglyzod	Dil Fa
Analyte Gasoline Range Organics	Kesuit <49.9		49.9	15.0	mg/Kg		11/15/21 09:27	Analyzed 11/15/21 20:26	DII Fa
(GRO)-C6-C10	\49.9	U I	49.9	15.0	ilig/Kg		11/15/21 09.27	11/15/21 20.20	
Diesel Range Organics (Over C10-C28)	27.6	JB	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 20:26	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 09:27	11/15/21 20:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	125		70 - 130				11/15/21 09:27	11/15/21 20:26	
o-Terphenyl	139	S1+	70 - 130				11/15/21 09:27	11/15/21 20:26	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
metriou. 000.0 - Amons, for one	0 . ,								
Analyte	0 . ,	Qualifier	RL 4.98	MDL 0.855	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/18/21 13:44	Dil Fac

Client Sample ID: TP32-2

Date Collected: 11/12/21 11:00

Lab Sample ID: 890-1572-19

Matrix: Solid

Date Collected: 11/12/21 11:00

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		11/16/21 15:49	11/16/21 21:51	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		11/16/21 15:49	11/16/21 21:51	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		11/16/21 15:49	11/16/21 21:51	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		11/16/21 15:49	11/16/21 21:51	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		11/16/21 15:49	11/16/21 21:51	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		11/16/21 15:49	11/16/21 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/16/21 15:49	11/16/21 21:51	1
1,4-Difluorobenzene (Surr)	95		70 - 130				11/16/21 15:49	11/16/21 21:51	1

Eurofins Xenco, Carlsbad

2

3

4

6

8

1 N

4.0

13

11/10/2021

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: TP32-2 Lab Sample ID: 890-1572-19

Date Collected: 11/12/21 11:00 Matrix: Solid Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397		0.00397	0.00100	mg/Kg			11/18/21 16:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.2	J	49.8	14.9	mg/Kg			11/17/21 13:26	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *1	49.8	14.9	mg/Kg		11/15/21 09:27	11/15/21 20:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	27.2	JB	49.8	14.9	mg/Kg		11/15/21 09:27	11/15/21 20:46	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		11/15/21 09:27	11/15/21 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				11/15/21 09:27	11/15/21 20:46	1
o-Terphenyl	124		70 - 130				11/15/21 09:27	11/15/21 20:46	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.7		5.00	0.858	mg/Kg			11/18/21 13:49	

Client Sample ID: HA1 Lab Sample ID: 890-1572-20 **Matrix: Solid**

Date Collected: 11/12/21 11:10 Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000419	J	0.00199	0.000383	mg/Kg		11/16/21 15:49	11/16/21 22:12	
Toluene	< 0.00199	U	0.00199	0.000454	mg/Kg		11/16/21 15:49	11/16/21 22:12	
Ethylbenzene	< 0.00199	U	0.00199	0.000563	mg/Kg		11/16/21 15:49	11/16/21 22:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 22:12	
o-Xylene	< 0.00199	U	0.00199	0.000343	mg/Kg		11/16/21 15:49	11/16/21 22:12	
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		11/16/21 15:49	11/16/21 22:12	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	137	S1+	70 _ 130				11/16/21 15:49	11/16/21 22:12	
Method: Total BTEX - Total BTE		Qualifier	70 ₋ 130	MDI	llait	В	11/16/21 15:49	11/16/21 22:12	
Method: Total BTEX - Total BTE Analyte	EX Calculation Result	Qualifier	RL		Unit mg/Kg	<u>D</u>	11/16/21 15:49 Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTE Analyte Total BTEX Method: 8015 NM - Diesel Rang	EX Calculation Result <0.00398	U		MDL 0.00101	Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BTE Analyte	EX Calculation Result <0.00398 ge Organics (DR)	U	RL	0.00101		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BTE Analyte Total BTEX Method: 8015 NM - Diesel Rang	EX Calculation Result <0.00398 ge Organics (DR)	U (GC)	RL 0.00398	0.00101	mg/Kg		Prepared	Analyzed 11/18/21 16:13	Dil Fac
Method: Total BTEX - Total BTE Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	EX Calculation Result <0.00398 ge Organics (DR) Result 185	O) (GC) Qualifier	RL 0.00398	0.00101 MDL	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BTE Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang	EX Calculation Result <0.00398 ge Organics (DR) Result 185 nge Organics (D	O) (GC) Qualifier	RL 0.00398	0.00101 MDL 15.0	mg/Kg		Prepared	Analyzed 11/18/21 16:13 Analyzed	Dil Fac
Method: Total BTEX - Total BTE Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH	EX Calculation Result <0.00398 ge Organics (DR) Result 185 nge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00398	0.00101 MDL 15.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/18/21 16:13 Analyzed 11/17/21 13:26	Dil Fac

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: HA1

Lab Sample ID: 890-1572-20 Date Collected: 11/12/21 11:10

Matrix: Solid

Date Received: 11/12/21 13:18

Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC) (C	Continued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	51.1		49.9	15.0	mg/Kg		11/15/21 08:59	11/15/21 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				11/15/21 08:59	11/15/21 20:05	1
o-Terphenyl	120		70 - 130				11/15/21 08:59	11/15/21 20:05	1
Method: 300.0 - Anions, Ion C	hromatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		5.00	0.858	mg/Kg			11/18/21 13:54	1

Client Sample ID: HA2 Lab Sample ID: 890-1572-21

Date Collected: 11/12/21 11:20

Matrix: Solid

Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000895	JB	0.00198	0.000381	mg/Kg		11/15/21 10:53	11/16/21 17:36	1
Toluene	0.000566	J	0.00198	0.000451	mg/Kg		11/15/21 10:53	11/16/21 17:36	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		11/15/21 10:53	11/16/21 17:36	1
m-Xylene & p-Xylene	0.00147	J	0.00396	0.00100	mg/Kg		11/15/21 10:53	11/16/21 17:36	1
o-Xylene	0.00105	J	0.00198	0.000341	mg/Kg		11/15/21 10:53	11/16/21 17:36	1
Xylenes, Total	0.00252	J	0.00396	0.00100	mg/Kg		11/15/21 10:53	11/16/21 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				11/15/21 10:53	11/16/21 17:36	1
4.4.000	400		70 400				44/45/04 40 50	44/40/04 47 00	

Surrogate	%Recovery Qualifier	Limits	Prepared	i Analyzeu	DII Fac
4-Bromofluorobenzene (Surr)	134 S1+	70 - 130	11/15/21 10	:53 11/16/21 17:36	1
1,4-Difluorobenzene (Surr)	102	70 - 130	11/15/21 10	:53 11/16/21 17:36	1
_					

Method: Total BTEX - Total BTEX Ca	aiculation							
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00398	0.00396	0.00100	mg/Kg			11/18/21 16:13	1

Method: 8015 NM - Diesei Range C	rganics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.4	49.9	15.0 mg/Kg			11/17/21 13:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		11/15/21 08:59	11/15/21 20:26	1
Diesel Range Organics (Over C10-C28)	52.4	В	49.9	15.0	mg/Kg		11/15/21 08:59	11/15/21 20:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		11/15/21 08:59	11/15/21 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				11/15/21 08:59	11/15/21 20:26	1
o-Terphenyl	110		70 ₋ 130				11/15/21 08:59	11/15/21 20:26	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		24.8	4.25	mg/Kg			11/16/21 21:29	5

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: HA3 Lab Sample ID: 890-1572-22

Matrix: Solid

Date Collected: 11/12/21 11:30 Date Received: 11/12/21 13:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		11/15/21 10:53	11/16/21 17:56	1
Toluene	0.00150	J	0.00199	0.000454	mg/Kg		11/15/21 10:53	11/16/21 17:56	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		11/15/21 10:53	11/16/21 17:56	1
m-Xylene & p-Xylene	0.00125	J	0.00398	0.00101	mg/Kg		11/15/21 10:53	11/16/21 17:56	1
o-Xylene	0.000857	J	0.00199	0.000343	mg/Kg		11/15/21 10:53	11/16/21 17:56	1
Xylenes, Total	0.00211	J	0.00398	0.00101	mg/Kg		11/15/21 10:53	11/16/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/15/21 10:53	11/16/21 17:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/15/21 10:53	11/16/21 17:56	1
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
			RL 			D	Prepared	Analyzed 11/18/21 16:13	Dil Fac
Total BTEX	0.00361	J	0.00090	0.00101	mg/Kg			11/10/21 10:13	'
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.7		49.8	14.9	mg/Kg			11/17/21 13:26	1
•									
	• •								
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.8		Unit mg/Kg	<u>D</u>	Prepared 11/15/21 08:59	Analyzed 11/15/21 20:46	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U	49.8	14.9	mg/Kg	<u>D</u>	11/15/21 08:59	11/15/21 20:46	1
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U		14.9		<u>D</u>	<u>.</u>		Dil Fac

Method: 8015B NM - Diesei Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	14.9	mg/Kg		11/15/21 08:59	11/15/21 20:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	58.7	В	49.8	14.9	mg/Kg		11/15/21 08:59	11/15/21 20:46	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		11/15/21 08:59	11/15/21 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/15/21 08:59	11/15/21 20:46	1
o-Terphenyl	116		70 - 130				11/15/21 08:59	11/15/21 20:46	1

Method: 300.0 - Anions, Ion Chromate	ography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		4.98	0.855	mg/Kg			11/16/21 21:36	1

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1572-1	TP19-3	113	97	
890-1572-2	TP20-2	124	100	
890-1572-3	TP21-2	135 S1+	91	
890-1572-4	TP22-2	108	82	
890-1572-5	TP23-S	123	101	
890-1572-6	TP23-2	129	90	
890-1572-7	TP24-2	113	104	
890-1572-8	TP25-2	118	76	
890-1572-9	TP26-2	113	99	
890-1572-10	TP27-S	115	95	
890-1572-11	TP27-2	152 S1+	101	
890-1572-12	TP28-2	119	99	
890-1572-13	TP29-S	119	71	
890-1572-14	TP29-2	119	94	
890-1572-15	TP30-S	133 S1+	93	
890-1572-16	TP30-2	127	94	
890-1572-17	TP31-S	124	71	
890-1572-18	TP31-2	118	74	
890-1572-19	TP32-2	128	95	
890-1572-20	HA1	137 S1+	95	
890-1572-21	HA2	134 S1+	102	
890-1572-22	HA3	116	100	
LCS 880-12215/1-A	Lab Control Sample	110	109	
LCS 880-12275/1-A	Lab Control Sample	111	95	
LCS 880-12349/1-A	Lab Control Sample	108	109	
LCSD 880-12215/2-A	Lab Control Sample Dup	115	107	
LCSD 880-12275/2-A	Lab Control Sample Dup	121	98	
LCSD 880-12349/2-A	Lab Control Sample Dup	109	105	
MB 880-12215/5-A	Method Blank	113	93	
MB 880-12275/5-A	Method Blank	125	108	
MB 880-12349/5-A	Method Blank	125	97	
WD 000 12045/5 / (

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1572-1	TP19-3	108	122
890-1572-2	TP20-2	106	119
890-1572-3	TP21-2	109	121
890-1572-4	TP22-2	103	115
890-1572-5	TP23-S	103	112
890-1572-6	TP23-2	87	89
890-1572-7	TP24-2	102	109
890-1572-8	TP25-2	93	99

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1572-9	TP26-2	94	102	
890-1572-10	TP27-S	87	91	
890-1572-11	TP27-2	89	92	
890-1572-12	TP28-2	109	125	
890-1572-13	TP29-S	102	106	
890-1572-14	TP29-2	100	106	
890-1572-15	TP30-S	98	106	
890-1572-16	TP30-2	107	113	
890-1572-17	TP31-S	109	119	
890-1572-18	TP31-2	125	139 S1+	
890-1572-19	TP32-2	111	124	
890-1572-20	HA1	113	120	
890-1572-21	HA2	105	110	
890-1572-22	HA3	110	116	
LCS 880-12224/2-A	Lab Control Sample	83	83	
LCS 880-12229/2-A	Lab Control Sample	106	101	
LCS 880-12340/2-A	Lab Control Sample	99	109	
LCSD 880-12224/3-A	Lab Control Sample Dup	156 S1+	161 S1+	
LCSD 880-12229/3-A	Lab Control Sample Dup	132 S1+	113	
LCSD 880-12340/3-A	Lab Control Sample Dup	100	110	
MB 880-12224/1-A	Method Blank	107	117	
MB 880-12229/1-A	Method Blank	111	122	
MB 880-12340/1-A	Method Blank	129	146 S1+	
Surrogate Legend				

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12215/5-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12215

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/15/21 08:07	11/15/21 11:50	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/15/21 08:07	11/15/21 11:50	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/15/21 08:07	11/15/21 11:50	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/15/21 08:07	11/15/21 11:50	1

Lab Sample ID: LCS 880-12215/1-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12215

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09556		mg/Kg		96	70 - 130	
Toluene	0.100	0.08289		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08441		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1784		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08696		mg/Kg		87	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-12215/2-A

Matrix: Solid

Analysis Batch: 12219

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 12215

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09851 mg/Kg 99 70 - 130 3 35 Toluene 0.100 0.08964 mg/Kg 90 70 - 130 8 35 Ethylbenzene 0.100 0.09120 mg/Kg 91 70 - 130 8 35 0.200 0.1935 m-Xylene & p-Xylene mg/Kg 97 70 - 130 35 0.100 0.09564 o-Xylene mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-12275/5-A

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 12275

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0009082	J	0.00200	0.000385	mg/Kg		11/15/21 10:53	11/16/21 12:14	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/15/21 10:53	11/16/21 12:14	1

Eurofins Xenco, Carlsbad

Page 25 of 55

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-12275/5-A

Matrix: Solid

Analysis Batch: 12413

Client Sample ID: Method Blank	Client	Sample	ID:	Method	Blank
--------------------------------	--------	--------	-----	--------	--------------

Prep Type: Total/NA

Prep Batch: 12275

ı										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/15/21 10:53	11/16/21 12:14	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/15/21 10:53	11/16/21 12:14	1
	o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/15/21 10:53	11/16/21 12:14	1
I	Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/15/21 10:53	11/16/21 12:14	1

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	_	11/15/21 10:53	11/16/21 12:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130		11/15/21 10:53	11/16/21 12:14	1

Lab Sample ID: LCS 880-12275/1-A

Matrix: Solid

Analysis Batch: 12413

Client Sample	ID: Lab	Control	Sample

Prep Type: Total/NA

Prep Batch: 12275

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08564		mg/Kg		86	70 - 130	
Toluene	0.100	0.08933		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09956		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.1887		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09021		mg/Kg		90	70 - 130	
I and the second								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-12275/2-A

Matrix: Solid

Analysis Batch: 12413

0114	0	ID. Lak	0	0	D
Cilent	Sample	ID: Lab	Control	Sample	Dub

Prep Type: Total/NA

Prep Batch: 12275

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09333		mg/Kg		93	70 - 130	9	35
Toluene	0.100	0.1017		mg/Kg		102	70 - 130	13	35
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2020		mg/Kg		101	70 - 130	7	35
o-Xylene	0.100	0.09711		mg/Kg		97	70 - 130	7	35

LCSD LCSD

мв мв

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	121	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: MB 880-12349/5-A

Matrix: Solid

Analysis Batch: 12415

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12349

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/15/21 15:49	11/16/21 11:49	1

Eurofins Xenco, Carlsbad

Page 26 of 55

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-12349/5-A

Matrix: Solid

Analysis Batch: 12415

Prep Type: Total/NA Prep Batch: 12349

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/15/21 15:49	11/16/21 11:49	1
	МВ	MB							

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	11/15/21 15:49	11/16/21 11:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/15/21 15:49	11/16/21 11:49	1

Lab Sample ID: LCS 880-12349/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 12415** Prep Batch: 12349

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08639		mg/Kg		86	70 - 130	
Toluene	0.100	0.07898		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.08065		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.200	0.1681		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.08216		mg/Kg		82	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-12349/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 12415							Prep	Batch:	12349
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08951		mg/Kg		90	70 - 130	4	35
Toluene	0.100	0.07681		mg/Kg		77	70 - 130	3	35
Ethylbenzene	0.100	0.08423		mg/Kg		84	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130	5	35
o-Xylene	0.100	0.08792		mg/Kg		88	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12224/1-A

Matrix: Solid

Analysis Batch: 12235

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 12224 MB MB

Result Qualifier RLMDL Unit Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 15.0 mg/Kg 11/15/21 08:59 11/15/21 11:55 (GRO)-C6-C10 Diesel Range Organics (Over 36.53 J 50.0 15.0 mg/Kg 11/15/21 08:59 11/15/21 11:55 OII Range Organics (Over C28-C36) <50.0 U 50.0 15.0 mg/Kg 11/15/21 08:59 11/15/21 11:55

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Client: GHD Services Inc.

Job ID: 890-1572-1

Project/Site: Hunt APO State #1

SDG: 11224665

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

	MB ME	В			
Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	11/15/21 08:59	11/15/21 11:55	1
o-Terphenyl	117	70 - 130	11/15/21 08:59	11/15/21 11:55	1

Lab Sample ID: LCS 880-12224/2-A

Matrix: Solid

Analysis Batch: 12235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12224

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1095 109 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 920.3 mg/Kg 92 70 - 130 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 83
 70 - 130

 o-Terphenyl
 83
 70 - 130

Lab Sample ID: LCSD 880-12224/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid
Analysis Batch: 12235

Spike LCSD LCSD Prep Type: Total/NA
Prep Type: Total/NA
Prep Batch: 12224
RPD
RPD

RPD Spike Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits 1000 20 Gasoline Range Organics 1261 mg/Kg 126 70 - 130 14 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1118 mg/Kg 112 70 - 13019 20 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 156
 S1+
 70 - 130

 o-Terphenyl
 161
 S1+
 70 - 130

Lab Sample ID: MB 880-12229/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 12237

MB MB

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		11/15/21 09:27	11/15/21 11:55	1
Diesel Range Organics (Over C10-C28)	23.75	J	50.0	15.0	mg/Kg		11/15/21 09:27	11/15/21 11:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/15/21 09:27	11/15/21 11:55	1
	MB	MB							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	11/15/21 09:27	11/15/21 11:55	1
o-Terphenyl	122		70 - 130	11/15/21 09:27	11/15/21 11:55	1

Eurofins Xenco, Carlsbad

2

3

4

5

7

0

10

40

Lab Sample ID: LCS 880-12229/2-A

Lab Sample ID: LCSD 880-12229/3-A

QC Sample Results

Client: GHD Services Inc. Job ID: 890-1572-1 SDG: 11224665 Project/Site: Hunt APO State #1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12229

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	769.1		mg/Kg		77	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	872.8		mg/Kg		87	70 - 130	
C10-C28)								

Matrix: Solid

Analysis Batch: 12237

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12229

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1295	*1	mg/Kg		130	70 - 130	51	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	939.1		mg/Kg		94	70 - 130	7	20
C40 C30)									

C10-C28)

Matrix: Solid

Analysis Batch: 12237

	LOOD	LOOD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: MB 880-12340/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 12232** Prep Batch: 12340

мв мв

LCSD LCSD

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0	15.0	mg/Kg		11/15/21 14:49	11/15/21 15:28	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0	15.0	mg/Kg		11/15/21 14:49	11/15/21 15:28	1
	C10-C28)									
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/15/21 14:49	11/15/21 15:28	1
ı										

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	11/15/21 14:49	11/15/21 15:28	1
o-Terphenyl	146	S1+	70 - 130	11/15/21 14:49	11/15/21 15:28	1

Lab Sample ID: LCS 880-12340/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 12232 Prep Batch: 12340

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1048		mg/Kg		105	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	922.2		mg/Kg		92	70 - 130	
C10-C28)								

Eurofins Xenco, Carlsbad

Page 29 of 55 Released to Imaging: 6/30/2023 10:36:43 AM

Client: GHD Services Inc.

Job ID: 890-1572-1

Project/Site: Hunt APO State #1

SDG: 11224665

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-12340/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 12232 Prep Batch: 12340

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-12340/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 12232 Prep Batch: 12340

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1092 109 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 941.2 mg/Kg 94 70 - 1302 20 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 100
 70 - 130

 o-Terphenyl
 110
 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11958/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Matrix: Solid
Analysis Batch: 12440

Prep Type: Soluble

MB MB

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 0.858
 mg/Kg
 11/16/21 13:23
 1

Lab Sample ID: LCS 880-11958/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 12440

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits

 Chloride
 250
 258.5
 mg/Kg
 103
 90 - 110

 Lab Sample ID: LCSD 880-11958/3-A
 Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 12440

Spike LCSD LCSD %Rec. RPD

 Analyte
 Added Chloride
 Result 250
 Qualifier 259.1
 Unit mg/Kg
 D %Rec Limits will 704
 RPD 110
 Limit 0 0 20

Lab Sample ID: MB 880-12438/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble Analysis Batch: 12580

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 0.858
 mg/Kg
 11/18/21 11:27
 1

Eurofins Xenco, Carlsbad

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1

SDG: 11224665

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-12438/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12580

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits D Chloride 250 264.3 mg/Kg 106 90 - 110

Lab Sample ID: LCSD 880-12438/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12580

Spike LCSD LCSD %Rec. RPD Added Qualifier RPD Limit Analyte Result Unit D %Rec Limits Chloride 250 264.1 mg/Kg 106 0

Lab Sample ID: 890-1572-1 MS Client Sample ID: TP19-3 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12580

Sample Sample MS MS %Rec. Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 1280 249 1521 E 4 mg/Kg 90 - 110

Lab Sample ID: 890-1572-1 MSD Client Sample ID: TP19-3 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 12580

Spike MSD MSD RPD Sample Sample %Rec. Analyte Qualifier Added Result Qualifier Unit %Rec RPD Limit Result Limits Chloride 1280 249 1514 E 4 90 - 110 20 mg/Kg

Lab Sample ID: 890-1572-11 MS Client Sample ID: TP27-2 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 12580

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 248 Chloride 541 788.8 mg/Kg 100 90 - 110

Lab Sample ID: 890-1572-11 MSD

Matrix: Solid

Analysis Batch: 12580

Sample Sample Spike MSD MSD %Rec. **RPD** Added Result Qualifier RPD Limit Analyte Result Qualifier Unit D %Rec Limits Chloride 541 248 784.8 mg/Kg 99 90 - 110 20

Eurofins Xenco, Carlsbad

Client Sample ID: TP27-2

Prep Type: Soluble

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

GC VOA

Prep Batch: 12215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-1	TP19-3	Total/NA	Solid	5035	
890-1572-2	TP20-2	Total/NA	Solid	5035	
890-1572-3	TP21-2	Total/NA	Solid	5035	
890-1572-4	TP22-2	Total/NA	Solid	5035	
890-1572-5	TP23-S	Total/NA	Solid	5035	
890-1572-6	TP23-2	Total/NA	Solid	5035	
890-1572-7	TP24-2	Total/NA	Solid	5035	
890-1572-8	TP25-2	Total/NA	Solid	5035	
890-1572-9	TP26-2	Total/NA	Solid	5035	
890-1572-10	TP27-S	Total/NA	Solid	5035	
MB 880-12215/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12215/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12215/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 12219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-1	TP19-3	Total/NA	Solid	8021B	12215
890-1572-2	TP20-2	Total/NA	Solid	8021B	12215
890-1572-3	TP21-2	Total/NA	Solid	8021B	12215
890-1572-4	TP22-2	Total/NA	Solid	8021B	12215
890-1572-5	TP23-S	Total/NA	Solid	8021B	12215
890-1572-6	TP23-2	Total/NA	Solid	8021B	12215
890-1572-7	TP24-2	Total/NA	Solid	8021B	12215
890-1572-8	TP25-2	Total/NA	Solid	8021B	12215
890-1572-9	TP26-2	Total/NA	Solid	8021B	12215
890-1572-10	TP27-S	Total/NA	Solid	8021B	12215
MB 880-12215/5-A	Method Blank	Total/NA	Solid	8021B	12215
LCS 880-12215/1-A	Lab Control Sample	Total/NA	Solid	8021B	12215
LCSD 880-12215/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12215

Prep Batch: 12275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1572-21	HA2	Total/NA	Solid	5035	
890-1572-22	HA3	Total/NA	Solid	5035	
MB 880-12275/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12275/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12275/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 12349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-11	TP27-2	Total/NA	Solid	5035	
890-1572-12	TP28-2	Total/NA	Solid	5035	
890-1572-13	TP29-S	Total/NA	Solid	5035	
890-1572-14	TP29-2	Total/NA	Solid	5035	
890-1572-15	TP30-S	Total/NA	Solid	5035	
890-1572-16	TP30-2	Total/NA	Solid	5035	
890-1572-17	TP31-S	Total/NA	Solid	5035	
890-1572-18	TP31-2	Total/NA	Solid	5035	
890-1572-19	TP32-2	Total/NA	Solid	5035	
890-1572-20	HA1	Total/NA	Solid	5035	
MB 880-12349/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

GC VOA (Continued)

Prep Batch: 12349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-12349/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12349/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 12413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-21	HA2	Total/NA	Solid	8021B	12275
890-1572-22	HA3	Total/NA	Solid	8021B	12275
MB 880-12275/5-A	Method Blank	Total/NA	Solid	8021B	12275
LCS 880-12275/1-A	Lab Control Sample	Total/NA	Solid	8021B	12275
LCSD 880-12275/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12275

Analysis Batch: 12415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-11	TP27-2	Total/NA	Solid	8021B	12349
890-1572-12	TP28-2	Total/NA	Solid	8021B	12349
890-1572-13	TP29-S	Total/NA	Solid	8021B	12349
890-1572-14	TP29-2	Total/NA	Solid	8021B	12349
890-1572-15	TP30-S	Total/NA	Solid	8021B	12349
890-1572-16	TP30-2	Total/NA	Solid	8021B	12349
890-1572-17	TP31-S	Total/NA	Solid	8021B	12349
890-1572-18	TP31-2	Total/NA	Solid	8021B	12349
890-1572-19	TP32-2	Total/NA	Solid	8021B	12349
890-1572-20	HA1	Total/NA	Solid	8021B	12349
MB 880-12349/5-A	Method Blank	Total/NA	Solid	8021B	12349
LCS 880-12349/1-A	Lab Control Sample	Total/NA	Solid	8021B	12349
LCSD 880-12349/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12349

Analysis Batch: 12693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1572-1	TP19-3	Total/NA	Solid	Total BTEX	
890-1572-2	TP20-2	Total/NA	Solid	Total BTEX	
890-1572-3	TP21-2	Total/NA	Solid	Total BTEX	
890-1572-4	TP22-2	Total/NA	Solid	Total BTEX	
390-1572-5	TP23-S	Total/NA	Solid	Total BTEX	
390-1572-6	TP23-2	Total/NA	Solid	Total BTEX	
90-1572-7	TP24-2	Total/NA	Solid	Total BTEX	
90-1572-8	TP25-2	Total/NA	Solid	Total BTEX	
390-1572-9	TP26-2	Total/NA	Solid	Total BTEX	
90-1572-10	TP27-S	Total/NA	Solid	Total BTEX	
90-1572-11	TP27-2	Total/NA	Solid	Total BTEX	
90-1572-12	TP28-2	Total/NA	Solid	Total BTEX	
90-1572-13	TP29-S	Total/NA	Solid	Total BTEX	
90-1572-14	TP29-2	Total/NA	Solid	Total BTEX	
90-1572-15	TP30-S	Total/NA	Solid	Total BTEX	
90-1572-16	TP30-2	Total/NA	Solid	Total BTEX	
90-1572-17	TP31-S	Total/NA	Solid	Total BTEX	
390-1572-18	TP31-2	Total/NA	Solid	Total BTEX	
390-1572-19	TP32-2	Total/NA	Solid	Total BTEX	
90-1572-20	HA1	Total/NA	Solid	Total BTEX	
90-1572-21	HA2	Total/NA	Solid	Total BTEX	
90-1572-22	HA3	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

Page 33 of 55

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

GC Semi VOA

Prep Batch: 12224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-20	HA1	Total/NA	Solid	8015NM Prep	
890-1572-21	HA2	Total/NA	Solid	8015NM Prep	
890-1572-22	HA3	Total/NA	Solid	8015NM Prep	
MB 880-12224/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12224/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12224/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 12229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-6	TP23-2	Total/NA	Solid	8015NM Prep	
890-1572-7	TP24-2	Total/NA	Solid	8015NM Prep	
890-1572-8	TP25-2	Total/NA	Solid	8015NM Prep	
890-1572-9	TP26-2	Total/NA	Solid	8015NM Prep	
890-1572-10	TP27-S	Total/NA	Solid	8015NM Prep	
890-1572-11	TP27-2	Total/NA	Solid	8015NM Prep	
890-1572-12	TP28-2	Total/NA	Solid	8015NM Prep	
890-1572-13	TP29-S	Total/NA	Solid	8015NM Prep	
890-1572-14	TP29-2	Total/NA	Solid	8015NM Prep	
890-1572-15	TP30-S	Total/NA	Solid	8015NM Prep	
890-1572-16	TP30-2	Total/NA	Solid	8015NM Prep	
890-1572-17	TP31-S	Total/NA	Solid	8015NM Prep	
890-1572-18	TP31-2	Total/NA	Solid	8015NM Prep	
890-1572-19	TP32-2	Total/NA	Solid	8015NM Prep	
MB 880-12229/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12229/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-1	TP19-3	Total/NA	Solid	8015B NM	12340
890-1572-2	TP20-2	Total/NA	Solid	8015B NM	12340
890-1572-3	TP21-2	Total/NA	Solid	8015B NM	12340
890-1572-4	TP22-2	Total/NA	Solid	8015B NM	12340
890-1572-5	TP23-S	Total/NA	Solid	8015B NM	12340
MB 880-12340/1-A	Method Blank	Total/NA	Solid	8015B NM	12340
LCS 880-12340/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12340
LCSD 880-12340/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12340

Analysis Batch: 12235

Lab Sample ID 890-1572-20	Client Sample ID HA1	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 12224
890-1572-21	HA2	Total/NA	Solid	8015B NM	12224
890-1572-22	HA3	Total/NA	Solid	8015B NM	12224
MB 880-12224/1-A	Method Blank	Total/NA	Solid	8015B NM	12224
LCS 880-12224/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12224
LCSD 880-12224/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12224

Analysis Batch: 12237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-6	TP23-2	Total/NA	Solid	8015B NM	12229
890-1572-7	TP24-2	Total/NA	Solid	8015B NM	12229

Eurofins Xenco, Carlsbad

340

Page 34 of 55

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

GC Semi VOA (Continued)

Analysis Batch: 12237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-8	TP25-2	Total/NA	Solid	8015B NM	12229
890-1572-9	TP26-2	Total/NA	Solid	8015B NM	12229
890-1572-10	TP27-S	Total/NA	Solid	8015B NM	12229
890-1572-11	TP27-2	Total/NA	Solid	8015B NM	12229
890-1572-12	TP28-2	Total/NA	Solid	8015B NM	12229
890-1572-13	TP29-S	Total/NA	Solid	8015B NM	12229
890-1572-14	TP29-2	Total/NA	Solid	8015B NM	12229
890-1572-15	TP30-S	Total/NA	Solid	8015B NM	12229
890-1572-16	TP30-2	Total/NA	Solid	8015B NM	12229
890-1572-17	TP31-S	Total/NA	Solid	8015B NM	12229
890-1572-18	TP31-2	Total/NA	Solid	8015B NM	12229
890-1572-19	TP32-2	Total/NA	Solid	8015B NM	12229
MB 880-12229/1-A	Method Blank	Total/NA	Solid	8015B NM	12229
LCS 880-12229/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12229
LCSD 880-12229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12229

Prep Batch: 12340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-1	TP19-3	Total/NA	Solid	8015NM Prep	
890-1572-2	TP20-2	Total/NA	Solid	8015NM Prep	
890-1572-3	TP21-2	Total/NA	Solid	8015NM Prep	
890-1572-4	TP22-2	Total/NA	Solid	8015NM Prep	
890-1572-5	TP23-S	Total/NA	Solid	8015NM Prep	
MB 880-12340/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12340/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12340/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-1	TP19-3	Total/NA	Solid	8015 NM	
890-1572-2	TP20-2	Total/NA	Solid	8015 NM	
890-1572-3	TP21-2	Total/NA	Solid	8015 NM	
890-1572-4	TP22-2	Total/NA	Solid	8015 NM	
890-1572-5	TP23-S	Total/NA	Solid	8015 NM	

Analysis Batch: 12574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-6	TP23-2	Total/NA	Solid	8015 NM	
890-1572-7	TP24-2	Total/NA	Solid	8015 NM	
890-1572-8	TP25-2	Total/NA	Solid	8015 NM	
890-1572-9	TP26-2	Total/NA	Solid	8015 NM	
890-1572-10	TP27-S	Total/NA	Solid	8015 NM	
890-1572-11	TP27-2	Total/NA	Solid	8015 NM	
890-1572-12	TP28-2	Total/NA	Solid	8015 NM	
890-1572-13	TP29-S	Total/NA	Solid	8015 NM	
890-1572-14	TP29-2	Total/NA	Solid	8015 NM	
890-1572-15	TP30-S	Total/NA	Solid	8015 NM	
890-1572-16	TP30-2	Total/NA	Solid	8015 NM	
890-1572-17	TP31-S	Total/NA	Solid	8015 NM	
890-1572-18	TP31-2	Total/NA	Solid	8015 NM	
890-1572-19	TP32-2	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-1572-1

SDG: 11224665

GC Semi VOA (Continued)

Analysis Batch: 12574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-20	HA1	Total/NA	Solid	8015 NM	
890-1572-21	HA2	Total/NA	Solid	8015 NM	
890-1572-22	HA3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-21	HA2	Soluble	Solid	DI Leach	
890-1572-22	HA3	Soluble	Solid	DI Leach	
MB 880-11958/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11958/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11958/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 12438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-1	TP19-3	Soluble	Solid	DI Leach	_
890-1572-2	TP20-2	Soluble	Solid	DI Leach	
890-1572-3	TP21-2	Soluble	Solid	DI Leach	
890-1572-4	TP22-2	Soluble	Solid	DI Leach	
890-1572-5	TP23-S	Soluble	Solid	DI Leach	
890-1572-6	TP23-2	Soluble	Solid	DI Leach	
890-1572-7	TP24-2	Soluble	Solid	DI Leach	
890-1572-8	TP25-2	Soluble	Solid	DI Leach	
890-1572-9	TP26-2	Soluble	Solid	DI Leach	
890-1572-10	TP27-S	Soluble	Solid	DI Leach	
890-1572-11	TP27-2	Soluble	Solid	DI Leach	
890-1572-12	TP28-2	Soluble	Solid	DI Leach	
890-1572-13	TP29-S	Soluble	Solid	DI Leach	
890-1572-14	TP29-2	Soluble	Solid	DI Leach	
890-1572-15	TP30-S	Soluble	Solid	DI Leach	
890-1572-16	TP30-2	Soluble	Solid	DI Leach	
890-1572-17	TP31-S	Soluble	Solid	DI Leach	
890-1572-18	TP31-2	Soluble	Solid	DI Leach	
890-1572-19	TP32-2	Soluble	Solid	DI Leach	
890-1572-20	HA1	Soluble	Solid	DI Leach	
MB 880-12438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12438/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1572-1 MS	TP19-3	Soluble	Solid	DI Leach	
890-1572-1 MSD	TP19-3	Soluble	Solid	DI Leach	
890-1572-11 MS	TP27-2	Soluble	Solid	DI Leach	
890-1572-11 MSD	TP27-2	Soluble	Solid	DI Leach	

Analysis Batch: 12440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-21	HA2	Soluble	Solid	300.0	11958
890-1572-22	HA3	Soluble	Solid	300.0	11958
MB 880-11958/1-A	Method Blank	Soluble	Solid	300.0	11958
LCS 880-11958/2-A	Lab Control Sample	Soluble	Solid	300.0	11958
LCSD 880-11958/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11958

Eurofins Xenco, Carlsbad

Page 36 of 55

Released to Imaging: 6/30/2023 10:36:43 AM

1

6

8

40

11

13

14

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

HPLC/IC

Analysis Batch: 12580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1572-1	TP19-3	Soluble	Solid	300.0	12438
890-1572-2	TP20-2	Soluble	Solid	300.0	12438
890-1572-3	TP21-2	Soluble	Solid	300.0	12438
890-1572-4	TP22-2	Soluble	Solid	300.0	12438
890-1572-5	TP23-S	Soluble	Solid	300.0	12438
890-1572-6	TP23-2	Soluble	Solid	300.0	12438
890-1572-7	TP24-2	Soluble	Solid	300.0	12438
890-1572-8	TP25-2	Soluble	Solid	300.0	12438
890-1572-9	TP26-2	Soluble	Solid	300.0	12438
890-1572-10	TP27-S	Soluble	Solid	300.0	12438
890-1572-11	TP27-2	Soluble	Solid	300.0	12438
890-1572-12	TP28-2	Soluble	Solid	300.0	12438
890-1572-13	TP29-S	Soluble	Solid	300.0	12438
890-1572-14	TP29-2	Soluble	Solid	300.0	12438
890-1572-15	TP30-S	Soluble	Solid	300.0	12438
890-1572-16	TP30-2	Soluble	Solid	300.0	12438
890-1572-17	TP31-S	Soluble	Solid	300.0	12438
890-1572-18	TP31-2	Soluble	Solid	300.0	12438
890-1572-19	TP32-2	Soluble	Solid	300.0	12438
890-1572-20	HA1	Soluble	Solid	300.0	12438
MB 880-12438/1-A	Method Blank	Soluble	Solid	300.0	12438
LCS 880-12438/2-A	Lab Control Sample	Soluble	Solid	300.0	12438
LCSD 880-12438/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12438
890-1572-1 MS	TP19-3	Soluble	Solid	300.0	12438
890-1572-1 MSD	TP19-3	Soluble	Solid	300.0	12438
890-1572-11 MS	TP27-2	Soluble	Solid	300.0	12438
890-1572-11 MSD	TP27-2	Soluble	Solid	300.0	12438

Eurofins Xenco, Carlsbad

Client: GHD Services Inc.
Project/Site: Hunt APO State #1

Job ID: 890-1572-1

SDG: 11224665

Client Sample ID: TP19-3 Lab San
Date Collected: 11/12/21 08:10

Lab Sample ID: 890-1572-1

Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 16:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12448	11/16/21 13:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12340	11/15/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12232	11/15/21 20:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 11:41	CH	XEN MID

Client Sample ID: TP20-2

Date Collected: 11/12/21 08:15

Lab Sample ID: 890-1572-2

Matrix: Solid

Date Collected: 11/12/21 08:15
Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 16:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12448	11/16/21 13:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12340	11/15/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12232	11/15/21 21:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 11:56	CH	XEN MID

Client Sample ID: TP21-2 Lab Sample ID: 890-1572-3

Date Collected: 11/12/21 08:25 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 17:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12448	11/16/21 13:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12340	11/15/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12232	11/15/21 21:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:01	CH	XEN MID

Client Sample ID: TP22-2 Lab Sample ID: 890-1572-4

Date Collected: 11/12/21 08:35 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 17:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

5

7

9

10

16

14

Matrix: Solid

Matrix: Solid

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-1572-1 SDG: 11224665

Lab Sample ID: 890-1572-4

Matrix: Solid

Client Sample ID: TP22-2

Date Collected: 11/12/21 08:35 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12448	11/16/21 13:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12340	11/15/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12232	11/15/21 22:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:06	CH	XEN MID

Client Sample ID: TP23-S

Date Collected: 11/12/21 08:50

Lab Sample ID: 890-1572-5

Matrix: Solid

Date Collected: 11/12/21 08:50 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 18:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12448	11/16/21 13:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12340	11/15/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12232	11/15/21 22:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:11	CH	XEN MID

Client Sample ID: TP23-2 Lab Sample ID: 890-1572-6

Date Collected: 11/12/21 09:00 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 18:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 15:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:26	CH	XEN MID

Client Sample ID: TP24-2 Lab Sample ID: 890-1572-7

Date Collected: 11/12/21 09:10 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 18:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	12229 12237	11/15/21 09:27 11/15/21 16:09	DM AJ	XEN MID XEN MID

Eurofins Xenco, Carlsbad

Page 39 of 55

Released to Imaging: 6/30/2023 10:36:43 AM

3

4

5

7

9

11 12

13

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-1572-1 SDG: 11224665

Lab Sample ID: 890-1572-7

Matrix: Solid

Matrix: Solid

Client Sample ID: TP24-2 Date Collected: 11/12/21 09:10

Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	12438	11/16/21 10:15	СН	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:31	CH	XEN MID

Client Sample ID: TP25-2 Lab Sample ID: 890-1572-8

Date Collected: 11/12/21 09:20
Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 19:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 16:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:35	CH	XEN MID

Client Sample ID: TP26-2 Lab Sample ID: 890-1572-9

Date Collected: 11/12/21 09:30 Matrix: Solid
Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 19:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 16:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:40	CH	XEN MID

Client Sample ID: TP27-S

Date Collected: 11/12/21 09:40

Lab Sample ID: 890-1572-10

Matrix: Solid

Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	12215	11/15/21 08:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12219	11/15/21 19:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 17:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:45	CH	XEN MID

Eurofins Xenco, Carlsbad

2

5

5

7

9

10

13

14/40/2024

Client: GHD Services Inc. Project/Site: Hunt APO State #1

Job ID: 890-1572-1 SDG: 11224665

Lab Sample ID: 890-1572-11

Matrix: Solid

Client Sample ID: TP27-2 Date Collected: 11/12/21 09:45 Date Received: 11/12/21 13:18

Released to Imaging: 6/30/2023 10:36:43 AM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 19:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 12:50	CH	XEN MID

Client Sample ID: TP28-2 Lab Sample ID: 890-1572-12

Date Collected: 11/12/21 09:50 Matrix: Solid Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 19:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:05	CH	XEN MID

Client Sample ID: TP29-S Lab Sample ID: 890-1572-13

Date Collected: 11/12/21 10:00 **Matrix: Solid** Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 19:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 18:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:10	CH	XEN MID

Client Sample ID: TP29-2 Lab Sample ID: 890-1572-14

Date Collected: 11/12/21 10:10 **Matrix: Solid** Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 20:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID

Eurofins Xenco, Carlsbad

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-1572-1 SDG: 11224665

Client Sample ID: TP29-2

Lab Sample ID: 890-1572-14

Matrix: Solid

Date Collected: 11/12/21 10:10 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:25	CH	XEN MID

Lab Sample ID: 890-1572-15

Matrix: Solid

Date Collected: 11/12/21 10:20 Date Received: 11/12/21 13:18

Client Sample ID: TP30-S

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 20:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:29	CH	XEN MID

Client Sample ID: TP30-2 Lab Sample ID: 890-1572-16

Date Collected: 11/12/21 10:30 Matrix: Solid
Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 20:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:34	CH	XEN MID

Client Sample ID: TP31-S

Date Collected: 11/12/21 10:40

Lab Sample ID: 890-1572-17

Matrix: Solid

Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 21:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 20:05	AJ	XEN MID

Eurofins Xenco, Carlsbad

Page 42 of 55

Lab Chronicle

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-1572-1

SDG: 11224665

Client Sample ID: TP31-S

Lab Sample ID: 890-1572-17

Matrix: Solid

Date Collected: 11/12/21 10:40 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:39	CH	XEN MID

Lab Sample ID: 890-1572-18

Matrix: Solid

Client Sample ID: TP31-2 Date Collected: 11/12/21 10:50 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 21:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 20:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:44	CH	XEN MID

Client Sample ID: TP32-2 Lab Sample ID: 890-1572-19

Date Collected: 11/12/21 11:00

Date Received: 11/12/21 13:18

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 21:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12229	11/15/21 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12237	11/15/21 20:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:49	CH	XEN MID

Client Sample ID: HA1 Lab Sample ID: 890-1572-20

Date Collected: 11/12/21 11:10 Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12349	11/16/21 15:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12415	11/16/21 22:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12224	11/15/21 08:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12235	11/15/21 20:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12438	11/16/21 10:15	CH	XEN MID
Soluble	Analysis	300.0		1			12580	11/18/21 13:54	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1572-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: HA2

Date Received: 11/12/21 13:18

Lab Sample ID: 890-1572-21 Date Collected: 11/12/21 11:20

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	12275	11/15/21 10:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12413	11/16/21 17:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12224	11/15/21 08:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12235	11/15/21 20:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11958	11/15/21 15:07	SC	XEN MID
Soluble	Analysis	300.0		5			12440	11/16/21 21:29	CH	XEN MID

Client Sample ID: HA3 Lab Sample ID: 890-1572-22

Date Collected: 11/12/21 11:30 Matrix: Solid

Date Received: 11/12/21 13:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12275	11/15/21 10:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12413	11/16/21 17:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12693	11/18/21 16:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12574	11/17/21 13:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12224	11/15/21 08:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12235	11/15/21 20:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11958	11/15/21 15:07	SC	XEN MID
Soluble	Analysis	300.0		1			12440	11/16/21 21:36	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.

Job ID: 890-1572-1

Project/Site: Hunt APO State #1

SDG: 11224665

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of		t the laboratory to not ocium	ed by the governing additionty. This list the	ay include analytes for t
,		Matrix	Analyte	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	

Eurofins Xenco, Carlsbad

Method Summary

Client: GHD Services Inc.
Project/Site: Hunt APO State #1

Job ID: 890-1572-1 SDG: 11224665

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

Released to Imaging: 6/30/2023 10:36:43 AM

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

3

4

7

a

12

12

Deni 40 (455

Sample Summary

Client: GHD Services Inc.

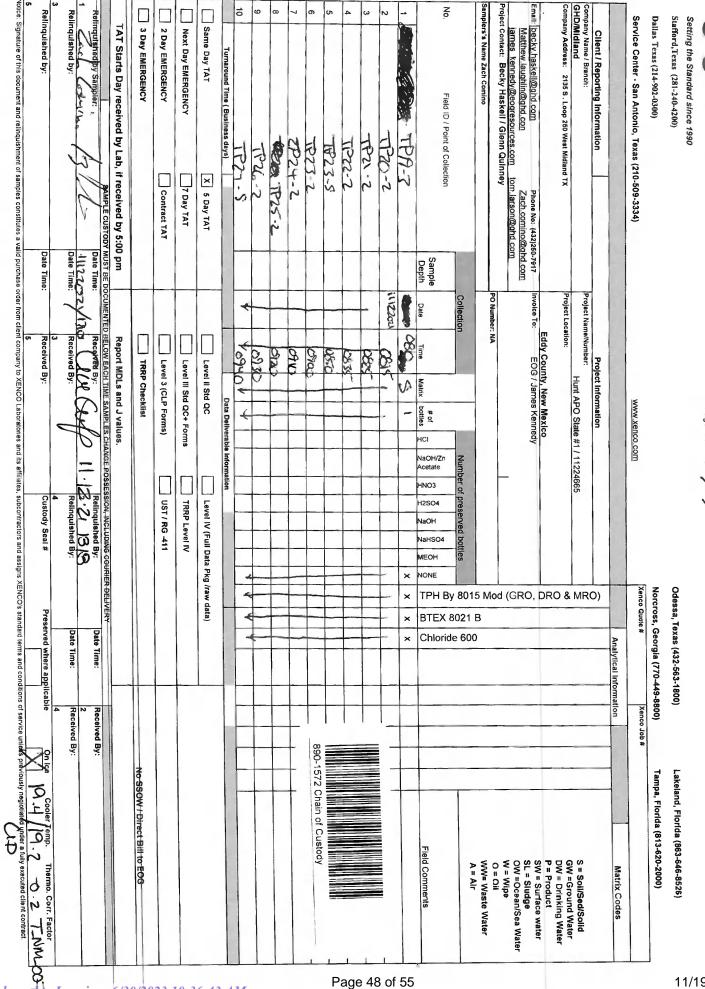
Project/Site: Hunt APO State #1

Job ID: 890-1572-1

SDG: 11224665

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1572-1	TP19-3	Solid	11/12/21 08:10	11/12/21 13:18
890-1572-2	TP20-2	Solid	11/12/21 08:15	11/12/21 13:18
890-1572-3	TP21-2	Solid	11/12/21 08:25	11/12/21 13:18
890-1572-4	TP22-2	Solid	11/12/21 08:35	11/12/21 13:18
890-1572-5	TP23-S	Solid	11/12/21 08:50	11/12/21 13:18
890-1572-6	TP23-2	Solid	11/12/21 09:00	11/12/21 13:18
890-1572-7	TP24-2	Solid	11/12/21 09:10	11/12/21 13:18
890-1572-8	TP25-2	Solid	11/12/21 09:20	11/12/21 13:18
90-1572-9	TP26-2	Solid	11/12/21 09:30	11/12/21 13:18
390-1572-10	TP27-S	Solid	11/12/21 09:40	11/12/21 13:18
390-1572-11	TP27-2	Solid	11/12/21 09:45	11/12/21 13:18
90-1572-12	TP28-2	Solid	11/12/21 09:50	11/12/21 13:18
90-1572-13	TP29-S	Solid	11/12/21 10:00	11/12/21 13:18
90-1572-14	TP29-2	Solid	11/12/21 10:10	11/12/21 13:18
90-1572-15	TP30-S	Solid	11/12/21 10:20	11/12/21 13:18
90-1572-16	TP30-2	Solid	11/12/21 10:30	11/12/21 13:18
90-1572-17	TP31-S	Solid	11/12/21 10:40	11/12/21 13:18
90-1572-18	TP31-2	Solid	11/12/21 10:50	11/12/21 13:18
390-1572-19	TP32-2	Solid	11/12/21 11:00	11/12/21 13:18
90-1572-20	HA1	Solid	11/12/21 11:10	11/12/21 13:18
390-1572-21	HA2	Solid	11/12/21 11:20	11/12/21 13:18
890-1572-22	HA3	Solid	11/12/21 11:30	11/12/21 13:18

CHAIN OF CUSTODY



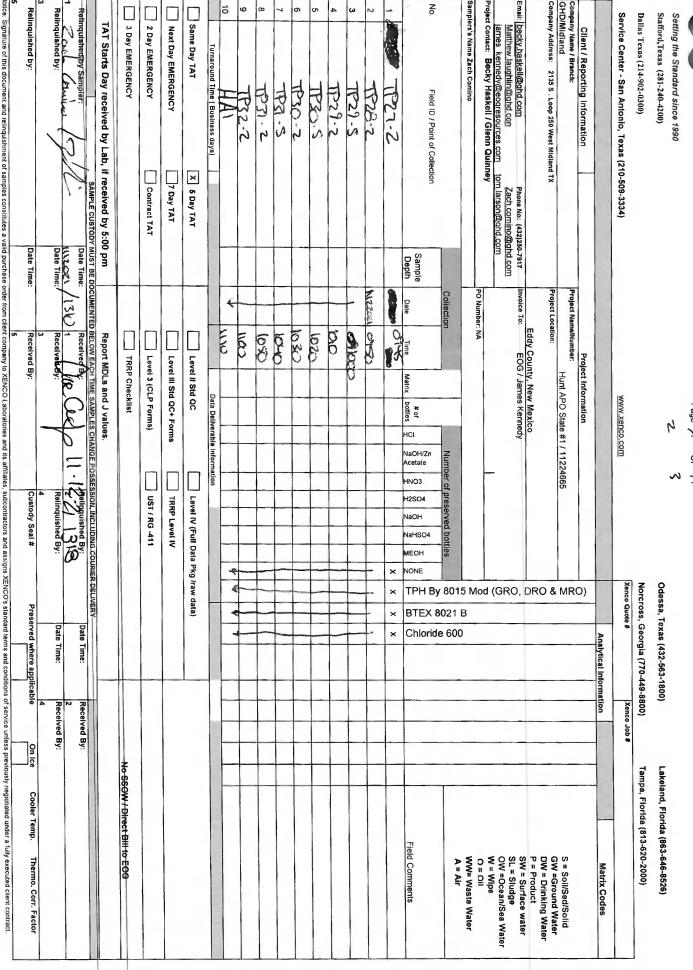
Š

volice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates

Relinquished by:

Relinquished by

HAIN OF CUSTODY



No

Setting the Standard since 1990

Stafford, Texas (281-240-4200)				Odessa, Texas (432-563-1800)		Lakeland, Florida (863-545-5525)
Dallas Texas (214-902-0300)				Norcross, Georgia (770-449-8800)		Tampa, Florida (813-620-2000)
Service Center - San Antonio, Texas (270-509-3334)		www.xenco.com		Applytical Information		Matrix Codes
Client / Reporting Information		Project Information				
Company Name / Branch: GHD/Midland	Project I	Project Name/Number: Hunt APO State #1 / 11224665	224665	MRC		S = Soll/Sed/Solid
Company Address: 2135 S . Loop 250 West Midland TX	Project Location:			O &		GW = Ground Water DW = Drinking Water
Email: <u>Decky.haskell@ghd.com</u> Phone No: (432)259-7 Matthew, laughlin@ghd.com	Phone No: (432)250-7917 Invoice To: Zach.comino@ghd.com	c: EOG / James Kennedy	-	I (GRO, DR		P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe
Samplers's Name Zach Comino	PO Number: NA	ber: NA		В		O = OII WW= Waste Water
	Collection		Number of preserved bottles	021		A = Alr
No. Field ID / Point of Collection	Sample Depth Date	bottles HCI NaOH/Zn	Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	TPH By BTEX 8 Chloride		Field Comments
1 MARIN HA-2		1 5		× ×		
2 HA-3	14270	1130 4	g	s S		
ω						
4						
5						
0						
7						
Φ.						
ω						
10 Turner out Time (Business days)		Data Deliverable information	restion			
Same Day TAT X 5 Day TAT	Т	Level II Std QC	Level IV (Full Data Pkg /raw data)	/raw data)		
Next Day EMERGENCY 7 Day TAT		Level III Std QC+ Forms	TRRP Level IV			
2 Day EMERGENCY Contract TAT	AT	Level 3 (CLP Forms)	UST / RG -411			
3 Day EMERGENCY		TRRP Checklist			Nos	No 680W / Direct Bill to EO6
TAT Starts Day received by Lab, if received by 5:00 pm	y 5:00 pm	Report MDLs and J values.				
Sample	Date Time:	CUSTOOV MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURSER DELIVERY Date Time: 11.72-2-1 /72-4 / 1/2	Relinguished By:	Date Time:	Received By:	
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	able On Ice	Cooler Temp. Thermo. Corr. Factor
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously regionated under a full executed client company to XENCO Laboratories and dispersion of the conditions of service unless previously regional to the conditions of service unless t	es a valid purchase order from	client company to XENCO Laboratories and its	affiliates, subcontractors and assigns >	ENCO's standard terms and condition	ns of service unless previously	y negiotiated under a fully executed client contract

Custody Seals Intact:

Custody Seal No

Company

Received by:

Date/Time

Company

Ver: 06/08/2021

Cooler Temperature(s) °C and Other Remarks

Yes

∆ No

linquished by

1089 N Canal St.

Eurofins Xenco, Carlsbad

Chain of Custody Record

State Zip: T**X**, 79701 TP20-2 (890-1572-2) TP19-3 (890-1572-1) 432-704-5440(Tel) Carlsbad NM 88220 Phone 575-988-3199 Fax TP25-2 (890-1572-8) TP24-2 (890-1572-7) TP23-S (890-1572-5) TP21-2 (890-1572-3) Client Information TP26-2 (890-1572-9) TP23-2 (890-1572-6) TP22-2 (890-1572-4) Sample Identification - Client ID (Lab ID) [∋]roject Name Hunt APO State #1 1211 W Florida Ave Deliverable Requested I II III IV Other (specify) Possible Hazard Identification lote Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently analytatin accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. 1idland urofins Xenco hipping/Receiving mpty Kit Relinquished by (Sub Contract Lab) 575-988-3199 Due Date Requested 11/18/2021 **₩**0 Phone. 88000221 TAT Requested (days) Primary Deliverable Rank 2 roject #: 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 Date Mountain 09 30 Mountain 09 10 Mountain 09 00 Mountain 08 50 Mountain 08 35 Mountain 08 25 Mountain 08 15 Mountain 09 20 08 10 Sample (C=comp, G=grab) Sample Preservation Code: Type Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Lab PM Simmons Debbie E-Mail debbie simmons@eurofinset.com Field Filtered Sample (Yes or No) Ime Accreditations Required (See note) NELAP - Louisiana, NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Moni 8016MOD NM/8016NM S Prep Full TPH - NM × × × \times × × × × × 3021B/5035FP_Calc BTEX (bulk jar/FP prep) × × × × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × B015MOD_Calo × × × × Analysis Requested Total_BTEX_GCV × × × × × × × × × Disposal By Lab State of Origin. New Mexico Carrier Tracking No(s) Method of Shipment Total Number of containers Page 1 of 3 COC No: 890-507 1 Preservation Codes 890-1572-1 Ice
J DI Water
K EDTA
L EDA Nitric Acid NaHSO4 MeOH Amchlor NaOH Ascorbic Acid 8 M - Hexane
N None
N None
N None
N None
N Nazoas
N Nazsoas
R Nazsoas
R Nazsoas
S Hzsoa
T TSP Dodecahydrate
U Acetone
U Acetone
U MCAA Months

1089 N Canal St

Eurofins Xenco, Carlsbad

Chain of Custody Record

State Zip: TX 79701 TP27-2 (890-1572-11) Sample Identification - Client ID (Lab ID) Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199 TP30-2 (890-1572-16) TP29-S (890-1572-13) TP28-2 (890-1572-12) TP27-S (890-1572-10) ГР31-S (890-1572-17) ГР30-S (890-1572-15) \$32-704-5440(Tel) ossible Hazard Identification lote Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently landing accreditation in the State of Origin listed above for analysis/fests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. P29-2 (890-1572-14) eliverable Requested I II III P31-2 (890-1572-18) 211 W Florida Ave unt APO State #1 idland oject Name: Custody Seals Intact: inquished by rofins Xenco iipping/Receiving ient Information npty Kit Relinguished by confirmed nquished by řes ∆ No (Sub Contract Lab) Custody Seal No < Other (specify) Due Date Requested 11/18/2021 88000221 hone Primary Deliverable Rank TAT Requested (days) roject #: 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 11/12/21 1/12/21 Mountain 10 50 Date Mountain 10 40 Mountain 10 30 Mountain 10 20 Mountain 10 10 Mountair 10 00 Mountair 09 45 Mountain 09 50 Mountain 09 40 (C=comp, G=grab) Sample Preservation Code: Type Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Simmons Debbie debbie.simmons@eurofinset.com NELAP - Louisiana, NELAP - Texas Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal Ry Lab Archive For Month Special Instructions/QC Requirements Received by: × 8015MOD_NM/8015NM_S_Prep Full TPH - NM × × × × × Cooler Temperature(s) °C and Other Remarks × × × Return To Client × × × × × \times 3021B/5035FP Calc BTEX (bulk jar/FP prep) 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × × × × × × × × × × × 8015MOD_Calc Analysis Requested × × × Total_BTEX_GCV Disposal By Lab State of Origin
New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Date/Time Archive For Total Number of containers $\rightarrow \mathbf{X}$ * 4 D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid 890-1572-1 Preservation Page Page 2 of 3 COC No: 890-507 2 Ice
DI Water
EDTA
EDA HCL NaOH Special Instructions/Note: ZΖ $Q \times C \vdash \Box > \geqslant \land$ A Hexane

ANDOS

NAZOAS

NAZSZOS

NAZSZOS

NAZSZOS

NAZSZOS

NAZSZOS

HZSO4

HZSO4

MCAA Ver 06/08/2021 / pH 4-5 other (specify) Months

eurofins |

Environment Testing

Eurofins Xenco, Carlsbad

Chain of Custody Record

1089 N Canal St	0	Chain of Custody Record	f Cust	odv R		ă														- የ መ	💸 eurofins		Environment Testing
Carisbad NM 88220 Phone 575-988-3199 Fax. 575-988-3199	,																						America
Client Information (Sub Contract Lab)	Sampler:			Lab PM Simmons	NONS	Debbie	ĕ						Carri	Carrier Tracking No(s)	cking	No(s)	l			COC No:	COC No: 890-507 3		
Client Contact: Shipping/Receiving	Phone			E-Mail debbie simmons@eurofinset.com	e sim	mon	s@e	urofii	nset	com		l	State	State of Origin New Mexico	Xi gin					Page:	Page: Page 3 of 3		
Company Eurofins Xenco					Accreditations Required (See note NELAP - Louisiana NELAP	P-L	s Rec	uired Iana	NEL (See	AP.	Texas	as	ı				l	l		Job #:	Job#: 890-1572-1		
Address 1211 W Florida Ave	Due Date Requested 11/18/2021	o.							>	Analy	/sis	lysis Requested	eenk	sted	_					Pres	Preservation Codes	des	
City Midland	TAT Requested (days):	ys):			H		Н	П	П	П		П	П		П	П	П	П	E4.3	ω > 	NaOH	Z 3	
State, Zip TX 79701						NM	2)													m 0 0	C Zn Acetate D - Nitric Acid E NaHSO4	οσα	Na2O4S Na2SO3
Phone: 432-704-5440(TeI)	PO#:				<u>) </u>	TPH -	FP pre	de											the state of the s	T O T	F MeOH G Amchlor H - Ascorbic Acid	- w z	- Na2S2O3 H2SO4 TSP Dodecahydrate
Email	WO#.				070000	,0000-100003-n	ik jar/i	Chloric											ig ngga Situas Shik	2-D	l Ice J - DI Water	< c -	
Project Name: Hunt APO State #1	Project #: 88000221						EX (bu	EACH				·····						-	ainer		EDTA EDA	ΝĘ	V pH 4-5 other (specify)
Site	SSOW#:				Supervision (Inc.)		Calc B1	D/DI_L		v				·	·				of con	Other:	7		
		Sample	Sample Type (C=comp.	Matrix (W=water S=solid,	ld Filtered form MS/N	5MOD_NM/8	1B/6036FP_	ORGFM_28	5MOD_Calc	al_BTEX_GC									al Number				
Position Property (Page 17)	Campie Date		Preservation Code:	ت (بنسب	ACCOUNT FOR	4560, 100 113	8	3	8	T					-	0.000	-		ΧIT		Special) Insur	Special instructions/Note.
TP32-2 (890-1572-19)	11/12/21	11 00 Mountain		Solid		×	×	×	×	×									4			De la Companya	30.000000000000000000000000000000000000
HA1 (890-1572-20)	11/12/21	11 10 Mountain		Solid		×	×	×	×	×	\neg												
HA2 (890-1572-21)	11/12/21	11 20 Mountain		Solid		×	×	×	×	×									ار وقعوراً				
HA3 (890-1572-22)	11/12/21	11 30 Mountain		Solid	\vdash	×	×	×	×	×									44				
					1				1	 	1-1-		1-1-										
Indeed the control of	eing analyzed the sa signed Chain of Cus	mples must be tody attesting to	yte & accredita shipped back to said complica	tion complianc o the Eurofins ince to Eurofin	xenco S Xenco	io LTC ir	aborat	ory or	other	instru	This	samp will b	e ship	ided	Any o	vardeo	d unde	er cha	in-of-c itation	statu	ly If the labo	ratory	does not currently
Unconfirmed					ý.	Sample Disposal (A fe	e Di: Retui	spos ™ Tc	ple Disposal (A f	nt nt	ma)	b	assessed if san Disposal By Lab	ssec osal	By L	ampi ab	es a		Arch	tained long Archive For	ne may be assessed if samples are retained longer than	1 m	1 month) Months
Deliverable Requested V Other (specify)	Primary Deliverable Rank	ble Rank 2			S	Special Instructions/QC	Inst	ructi	ons/(equi	Requirements	nts										
Empty Kit Relinquished by:		Date			Time [.]		D		ρ,					Met	nod o	Method of Shipment:	nent						
Relinquished by Refinquished by	Date/Time:		0 0	Company		Rec ec	Receivate	*	\pm)					Date Date	Date/Time Date/Time:	, u					Company Company
	Date∕Time		0	Company		Rec	Received by	by:								Dat	Date∕Time	"					Company
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						S	ber Te	mper	Cooler Temperature(s) °C		and O	and Other Remarks	emark	8									

Ver 06/08/2021

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1572-1

SDG Number: 11224665

Login Number: 1572 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6 mm (1/4").	N/A	

Eurofins Xenco, Carlsbad

Released to Imaging: 6/30/2023 10:36:43 AM

2

3

J

4

6

9

111

13

14

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1572-1 SDG Number: 11224665

List Source: Eurofins Xenco, Midland

List Creation: 11/15/21 09:09 AM

List Number: 2 Creator: Teel, Brianna

Login Number: 1572

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2172-1

Laboratory Sample Delivery Group: 11224665 Client Project/Site: HUNT APO STATE #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

Debbie Simmons

Authorized for release by: 4/12/2022 5:15:51 PM

Debbie Simmons, Project Manager (832)986-6768

Debbie.Simmons@et.eurofinsus.com

Review your project

results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

inv

Released to Imaging: 6/30/2023 10:36:43 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

3

4

6

a

10

12

13

Client: GHD Services Inc.

Laboratory Job ID: 890-2172-1

Project/Site: HUNT APO STATE #1

SDG: 11224665

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Racaint Chacklists	23

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1

SDG: 11224665

Qualifiers

GC VOA

Qualifier **Qualifier Description** Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

DLC

EDL

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossany

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG

Negative / Absent POS Positive / Present PQL Practical Quantitation Limit **PRES**

Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: GHD Services Inc.

Project/Site: HUNT APO STATE #1

Job ID: 890-2172-1

SDG: 11224665

Job ID: 890-2172-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2172-1

Receipt

The samples were received on 4/7/2022 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 22.0°C. Local delivery to lab same day as collection.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

- 2

4

1

9

10

12

13

114

Matrix: Solid

Lab Sample ID: 890-2172-1

Client Sample Results

Client: GHD Services Inc.

Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1 SDG: 11224665

Client Sample ID: TB8-2*

Date Collected: 04/07/22 11:45 Date Received: 04/07/22 15:00

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000829	J	0.00200	0.000384	mg/Kg		04/11/22 09:57	04/11/22 14:32	1
Toluene	0.00261		0.00200	0.000455	mg/Kg		04/11/22 09:57	04/11/22 14:32	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/11/22 09:57	04/11/22 14:32	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 09:57	04/11/22 14:32	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/11/22 09:57	04/11/22 14:32	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 09:57	04/11/22 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/11/22 09:57	04/11/22 14:32	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/11/22 09:57	04/11/22 14:32	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00344	J	0.00399	0.00101	mg/Kg			04/11/22 17:12	1
Method: 8015 NM - Diesel Range	Organics (DB)	0) (60)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9		49.8		mg/Kg	— <u> </u>		04/11/22 20:04	1
•									
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		04/11/22 10:09	04/11/22 11:19	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 10:09	04/11/22 11:19	1
Oll Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 10:09	04/11/22 11:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/11/22 10:09	04/11/22 11:19	1
o-Terphenyl	108		70 - 130				04/11/22 10:09	04/11/22 11:19	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
		Ouglition	RL	MDI	Unit		Duamanad	Amalumad	Dil Fac
Analyte	Result	Qualifier	KL	MIDL	Unit	D	Prepared	Analyzed	DII Fac

Client Sample ID: TP8-4*

Date Collected: 04/07/22 12:00 Date Received: 04/07/22 15:00

Sample Depth: 4

Xylenes, Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Benzene	0.000975	J	0.00199	0.000383	mg/Kg		04/11/22 09:57
Toluene	0.00466		0.00199	0.000454	mg/Kg		04/11/22 09:57
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		04/11/22 09:57
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/11/22 09:57
o-Xylene	< 0.000343	U	0.00199	0.000343	mg/Kg		04/11/22 09:57

<0.00101 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108	70 - 130	04/11/22 09:57	04/11/22 14:53	1

0.00398

0.00101 mg/Kg

Eurofins Carlsbad

Lab Sample ID: 890-2172-2

Analyzed 04/11/22 14:53 04/11/22 14:53 04/11/22 14:53 04/11/22 14:53 04/11/22 14:53

04/11/22 14:53

04/11/22 09:57

Matrix: Solid

Dil Fac

Client: GHD Services Inc.

Project/Site: HUNT APO STATE #1

Job ID: 890-2172-1

Lab Sample ID: 890-2172-2

SDG: 11224665

Client Sample ID: TP8-4*

Date Collected: 04/07/22 12:00 Date Received: 04/07/22 15:00

Matrix: Solid

Sample Depth: 4

Method: 8021B - Volatile Organic	Compounds ((GC)	(Continued)
----------------------------------	-------------	------	-------------

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	04/11/22 09:57	04/11/22 14:53	1

Method: To	tal BTFX - Tot	tal BTEX Calculation	n

Analyte	Result Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00564	0.00398	0.00101 r	mg/Kg			04/11/22 17:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9 U	49.8	14.9 ma/Ka			04/11/22 20:04	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOL	itunge or	garnoo (D. (O)	(–

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		04/11/22 10:09	04/11/22 12:23	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 10:09	04/11/22 12:23	1
Oll Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 10:09	04/11/22 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103	70 - 130	04/11/22 10:09	04/11/22 12:23	1
o-Terphenyl	122	70 - 130	04/11/22 10:09	04/11/22 12:23	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	,	Prepared	Analyzed	Dil Fac	
Chloride	33.9		4.99	0.857	mg/Kg				04/12/22 13:40	1	

Client Sample ID: BH-1 Lab Sample ID: 890-2172-3

Date Collected: 04/07/22 13:45 Date Received: 04/07/22 15:00

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

mountain colline and an area		()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/11/22 09:57	04/11/22 15:13	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/11/22 09:57	04/11/22 15:13	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/11/22 09:57	04/11/22 15:13	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 09:57	04/11/22 15:13	1
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		04/11/22 09:57	04/11/22 15:13	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 09:57	04/11/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 _ 130				04/11/22 09:57	04/11/22 15:13	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/11/22 09:57	04/11/22 15:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	ma/Ka			04/11/22 17:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/11/22 20:04	1

Eurofins Carlsbad

Matrix: Solid

Client: GHD Services Inc.

Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1 SDG: 11224665

Client Sample ID: BH-1 Lab Sample ID: 890-2172-3

Date Collected: 04/07/22 13:45 Matrix: Solid Date Received: 04/07/22 15:00

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 12:44	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 12:44	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/11/22 10:09	04/11/22 12:44	1
o-Terphenyl	102		70 - 130				04/11/22 10:09	04/11/22 12:44	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-1 Lab Sample ID: 890-2172-4 Matrix: Solid

Date Collected: 04/07/22 13:50

Date Received: 04/07/22 15:00

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/11/22 09:57	04/11/22 15:33	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/11/22 09:57	04/11/22 15:33	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/11/22 09:57	04/11/22 15:33	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 09:57	04/11/22 15:33	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/11/22 09:57	04/11/22 15:33	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 09:57	04/11/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				04/11/22 09:57	04/11/22 15:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/11/22 09:57	04/11/22 15:33	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			04/11/22 17:12	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/11/22 20:04	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 13:06	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 13:06	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/11/22 10:09	04/11/22 13:06	1
	116		70 ₋ 130				04/11/22 10:09	04/11/22 13:06	

Client: GHD Services Inc.

Project/Site: HUNT APO STATE #1

Job ID: 890-2172-1

SDG: 11224665

Client Sample ID: SW-1

Date Collected: 04/07/22 13:50 Date Received: 04/07/22 15:00 Lab Sample ID: 890-2172-4

Matrix: Solid

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	433		5.02	0.862	mg/Kg			04/12/22 14:16	1

Client Sample ID: BH-2 Lab Sample ID: 890-2172-5 Matrix: Solid

Date Collected: 04/07/22 13:55

Date Received: 04/07/22 15:00

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000466	J	0.00201	0.000387	mg/Kg		04/11/22 09:57	04/11/22 15:54	1
Toluene	0.00126	J	0.00201	0.000458	mg/Kg		04/11/22 09:57	04/11/22 15:54	1
Ethylbenzene	< 0.000567	U	0.00201	0.000567	mg/Kg		04/11/22 09:57	04/11/22 15:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/11/22 09:57	04/11/22 15:54	1
o-Xylene	< 0.000345	U	0.00201	0.000345	mg/Kg		04/11/22 09:57	04/11/22 15:54	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/11/22 09:57	04/11/22 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				04/11/22 09:57	04/11/22 15:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/11/22 09:57	04/11/22 15:54	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00173	J	0.00402	0.00101	mg/Kg			04/11/22 17:12	1
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/11/22 20:04	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 10:09	04/11/22 13:28	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 10:09	04/11/22 13:28	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 10:09	04/11/22 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/11/22 10:09	04/11/22 13:28	1
o-Terphenyl	108		70 - 130				04/11/22 10:09	04/11/22 13:28	1
		Oalubia							
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chr Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate I
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2172-1	TB8-2*	101	105	
890-2172-2	TP8-4*	108	98	
890-2172-3	BH-1	104	103	
890-2172-4	SW-1	94	96	
890-2172-5	BH-2	83	101	
LCS 880-23288/1-A	Lab Control Sample	97	104	
LCSD 880-23288/2-A	Lab Control Sample Dup	97	102	
MB 880-23288/5-A	Method Blank	97	100	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Surrogate Re
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2172-1	TB8-2*	98	108	
890-2172-1 MS	TB8-2*	103	105	
890-2172-1 MSD	TB8-2*	102	107	
890-2172-2	TP8-4*	103	122	
890-2172-3	BH-1	89	102	
890-2172-4	SW-1	99	116	
890-2172-5	BH-2	95	108	
LCS 880-23289/2-A	Lab Control Sample	101	99	
LCSD 880-23289/3-A	Lab Control Sample Dup	112	109	
MB 880-23289/1-A	Method Blank	115	127	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: GHD Services Inc. Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23288/5-A

Lab Sample ID: LCS 880-23288/1-A

Lab Sample ID: LCSD 880-23288/2-A

Analysis Batch: 23287

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 23287

Analysis Batch: 23287

MD MD

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23288

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/11/22 09:57	04/11/22 12:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/11/22 09:57	04/11/22 12:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/11/22 09:57	04/11/22 12:41	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23288

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09572 mg/Kg 96 70 - 130 Toluene 0.100 0.1067 mg/Kg 107 70 - 130 0.100 0.1089 109 Ethylbenzene mg/Kg 70 - 130 m-Xylene & p-Xylene 0.200 0.2191 110 70 - 130 mg/Kg 0.100 0.1058 106 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23288

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09510		mg/Kg		95	70 - 130	1	35
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130	2	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1.4-Difluorobenzene (Surr)	102		70 ₋ 130

Client: GHD Services Inc. Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1 SDG: 11224665

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-23289/1-A

Lab Sample ID: LCS 880-23289/2-A

Lab Sample ID: LCSD 880-23289/3-A

Matrix: Solid

Analysis Batch: 23281

Matrix: Solid Analysis Batch: 23281 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23289

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 10:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 10:16	1
C10-C28)									
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:09	04/11/22 10:16	1
	MR	MR							

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	04/11/22 10:09	04/11/22 10:16	1
o-Terphenyl	127		70 - 130	04/11/22 10:09	04/11/22 10:16	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23289

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	919.9	-	mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	946.5		mg/Kg		95	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	101	70 - 130
o-Terphenyl	99	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23289

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1003		mg/Kg		100	70 - 130	9	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1100		mg/Kg		110	70 - 130	15	20	

C10-C28)

Matrix: Solid

Analysis Batch: 23281

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	112	70 - 130
o-Terphenyl	109	70 - 130

Lab Sample ID: 890-2172-1 MS Client Sample ID: TB8-2*

Matrix: Solid Prep Type: Total/NA Analysis Batch: 23281 Prep Batch: 23289

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<14.9	U	997	986.3		mg/Kg		99	70 _ 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<14.9	U	997	887.2		mg/Kg		89	70 - 130	
C10-C28)										

Client: GHD Services Inc. Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1

SDG: 11224665

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS

Lab Sample ID: 890-2172-1 MS **Matrix: Solid**

Analysis Batch: 23281

Client Sample ID: TB8-2* Prep Type: Total/NA

Prep Batch: 23289

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 103 70 - 130 o-Terphenyl 105 70 - 130

Lab Sample ID: 890-2172-1 MSD Client Sample ID: TB8-2*

Matrix: Solid

Analysis Batch: 23281

Prep Type: Total/NA

Prep Batch: 23289

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <14.9 U 998 1017 102 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 906.1 91 <14.9 U mg/Kg 70 - 1302 20 C10-C28)

MSD MSD

%Recovery Surrogate Qualifier Limits 102 70 - 130 1-Chlorooctane 107 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23299/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23344

мв мв

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <0.858 U 0.858 mg/Kg 04/12/22 10:43

Lab Sample ID: LCS 880-23299/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23344

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 249.6 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-23299/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23344

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 249.4 100 90 - 110 20 mg/Kg

Client Sample ID: TB8-2* Lab Sample ID: 890-2172-1 MS

Matrix: Solid

Analysis Batch: 23344

Released to Imaging: 6/30/2023 10:36:43 AM

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 250 48.4 296.4 mg/Kg 90 - 110

Eurofins Carlsbad

Prep Type: Soluble

Client: GHD Services Inc. Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1

SDG: 11224665

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2172-1 MSD Client Sample ID: TB8-2* **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23344

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	48.4		250	291.9		mg/Kg		97	90 - 110	2	20

QC Association Summary

Client: GHD Services Inc.

Job ID: 890-2172-1

Project/Site: HUNT APO STATE #1

SDG: 11224665

GC VOA

Analysis Batch: 23287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2172-1	TB8-2*	Total/NA	Solid	8021B	23288
890-2172-2	TP8-4*	Total/NA	Solid	8021B	23288
890-2172-3	BH-1	Total/NA	Solid	8021B	23288
890-2172-4	SW-1	Total/NA	Solid	8021B	23288
890-2172-5	BH-2	Total/NA	Solid	8021B	23288
MB 880-23288/5-A	Method Blank	Total/NA	Solid	8021B	23288
LCS 880-23288/1-A	Lab Control Sample	Total/NA	Solid	8021B	23288
LCSD 880-23288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23288

Prep Batch: 23288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2172-1	TB8-2*	Total/NA	Solid	5035	<u> </u>
890-2172-2	TP8-4*	Total/NA	Solid	5035	
890-2172-3	BH-1	Total/NA	Solid	5035	
890-2172-4	SW-1	Total/NA	Solid	5035	
890-2172-5	BH-2	Total/NA	Solid	5035	
MB 880-23288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 23335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2172-1	TB8-2*	Total/NA	Solid	Total BTEX	
890-2172-2	TP8-4*	Total/NA	Solid	Total BTEX	
890-2172-3	BH-1	Total/NA	Solid	Total BTEX	
890-2172-4	SW-1	Total/NA	Solid	Total BTEX	
890-2172-5	BH-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 23281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2172-1	TB8-2*	Total/NA	Solid	8015B NM	23289
890-2172-2	TP8-4*	Total/NA	Solid	8015B NM	23289
890-2172-3	BH-1	Total/NA	Solid	8015B NM	23289
890-2172-4	SW-1	Total/NA	Solid	8015B NM	23289
890-2172-5	BH-2	Total/NA	Solid	8015B NM	23289
MB 880-23289/1-A	Method Blank	Total/NA	Solid	8015B NM	23289
LCS 880-23289/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23289
LCSD 880-23289/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23289
890-2172-1 MS	TB8-2*	Total/NA	Solid	8015B NM	23289
890-2172-1 MSD	TB8-2*	Total/NA	Solid	8015B NM	23289

Prep Batch: 23289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2172-1	TB8-2*	Total/NA	Solid	8015NM Prep	
890-2172-2	TP8-4*	Total/NA	Solid	8015NM Prep	
890-2172-3	BH-1	Total/NA	Solid	8015NM Prep	
890-2172-4	SW-1	Total/NA	Solid	8015NM Prep	
890-2172-5	BH-2	Total/NA	Solid	8015NM Prep	
MB 880-23289/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: GHD Services Inc.

Project/Site: HUNT APO STATE #1

Job ID: 890-2172-1 SDG: 11224665

GC Semi VOA (Continued)

Prep Batch: 23289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-23289/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23289/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2172-1 MS	TB8-2*	Total/NA	Solid	8015NM Prep	
890-2172-1 MSD	TB8-2*	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2172-1	TB8-2*	Total/NA	Solid	8015 NM	
890-2172-2	TP8-4*	Total/NA	Solid	8015 NM	
890-2172-3	BH-1	Total/NA	Solid	8015 NM	
890-2172-4	SW-1	Total/NA	Solid	8015 NM	
890-2172-5	BH-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2172-1	TB8-2*	Soluble	Solid	DI Leach	_
890-2172-2	TP8-4*	Soluble	Solid	DI Leach	
890-2172-3	BH-1	Soluble	Solid	DI Leach	
890-2172-4	SW-1	Soluble	Solid	DI Leach	
890-2172-5	BH-2	Soluble	Solid	DI Leach	
MB 880-23299/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23299/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23299/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2172-1 MS	TB8-2*	Soluble	Solid	DI Leach	
890-2172-1 MSD	TB8-2*	Soluble	Solid	DI Leach	

Analysis Batch: 23344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2172-1	TB8-2*	Soluble	Solid	300.0	23299
890-2172-2	TP8-4*	Soluble	Solid	300.0	23299
890-2172-3	BH-1	Soluble	Solid	300.0	23299
890-2172-4	SW-1	Soluble	Solid	300.0	23299
890-2172-5	BH-2	Soluble	Solid	300.0	23299
MB 880-23299/1-A	Method Blank	Soluble	Solid	300.0	23299
LCS 880-23299/2-A	Lab Control Sample	Soluble	Solid	300.0	23299
LCSD 880-23299/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23299
890-2172-1 MS	TB8-2*	Soluble	Solid	300.0	23299
890-2172-1 MSD	TB8-2*	Soluble	Solid	300.0	23299

Eurofins Carlsbad

2

3

4

6

9

10

12

Client: GHD Services Inc.

Project/Site: HUNT APO STATE #1

SDG: 11224665

Lab Sample ID: 890-2172-1

Matrix: Solid

Job ID: 890-2172-1

Client Sample ID: TB8-2* Date Collected: 04/07/22 11:45 Date Received: 04/07/22 15:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23288	04/11/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23287	04/11/22 14:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23335	04/11/22 17:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23346	04/11/22 20:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	23289	04/11/22 10:09	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 11:19	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23299	04/11/22 11:13	CH	XEN MID
Soluble	Analysis	300.0		1			23344	04/12/22 13:14	CH	XEN MID

Client Sample ID: TP8-4* Lab Sample ID: 890-2172-2

Date Collected: 04/07/22 12:00 Matrix: Solid Date Received: 04/07/22 15:00

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 23288 Total/NA 5.02 g 5 mL 04/11/22 09:57 MR XEN MID Total/NA 8021B 5 mL 04/11/22 14:53 XEN MID Analysis 1 5 mL 23287 MR Total/NA Total BTEX 23335 04/11/22 17:12 AJ XEN MID Analysis 1 Total/NA Analysis 8015 NM 23346 04/11/22 20:04 XEN MID Total/NA 23289 04/11/22 10:09 XEN MID Prep 8015NM Prep 10.05 g AM 10 mL Total/NA Analysis 8015B NM 23281 04/11/22 12:23 AJ XEN MID Soluble 23299 04/11/22 11:13 СН XEN MID Leach DI Leach 5.01 g 50 mL Soluble Analysis 300.0 1 23344 04/12/22 13:40 CH XEN MID

Lab Sample ID: 890-2172-3 Client Sample ID: BH-1

Date Collected: 04/07/22 13:45 **Matrix: Solid** Date Received: 04/07/22 15:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23288	04/11/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23287	04/11/22 15:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23335	04/11/22 17:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23346	04/11/22 20:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23289	04/11/22 10:09	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23299	04/11/22 11:13	CH	XEN MID
Soluble	Analysis	300.0		1			23344	04/12/22 13:49	CH	XEN MID

Client Sample ID: SW-1 Lab Sample ID: 890-2172-4

Date Collected: 04/07/22 13:50 Matrix: Solid Date Received: 04/07/22 15:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23288	04/11/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23287	04/11/22 15:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23335	04/11/22 17:12	AJ	XEN MID

Eurofins Carlsbad

Released to Imaging: 6/30/2023 10:36:43 AM

Lab Chronicle

Client: GHD Services Inc. Project/Site: HUNT APO STATE #1 Job ID: 890-2172-1

SDG: 11224665

Client Sample ID: SW-1

Lab Sample ID: 890-2172-4

Matrix: Solid

Date Collected: 04/07/22 13:50 Date Received: 04/07/22 15:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			23346	04/11/22 20:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23289	04/11/22 10:09	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 13:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	23299	04/11/22 11:13	CH	XEN MID
Soluble	Analysis	300.0		1			23344	04/12/22 14:16	CH	XEN MID

Lab Sample ID: 890-2172-5

Matrix: Solid

Date Collected: 04/07/22 13:55 Date Received: 04/07/22 15:00

Client Sample ID: BH-2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23288	04/11/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23287	04/11/22 15:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23335	04/11/22 17:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23346	04/11/22 20:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23289	04/11/22 10:09	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 13:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23299	04/11/22 11:13	CH	XEN MID
Soluble	Analysis	300.0		1			23344	04/12/22 14:24	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 890-2172-1 Project/Site: HUNT APO STATE #1 SDG: 11224665

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	t the laboratory is not certific	ed by the governing authority. This list the	ay include analytes to
,	• •	Matrix	Analyte	ay illolude allalytes lo
the agency does not of	fer certification.	,	, , ,	ay include allalytes lo

Method Summary

Client: GHD Services Inc.

Project/Site: HUNT APO STATE #1

Job ID: 890-2172-1

SDG: 11224665

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

2

3

6

9

11

12

Sample Summary

Client: GHD Services Inc.

Project/Site: HUNT APO STATE #1

Job ID: 890-2172-1

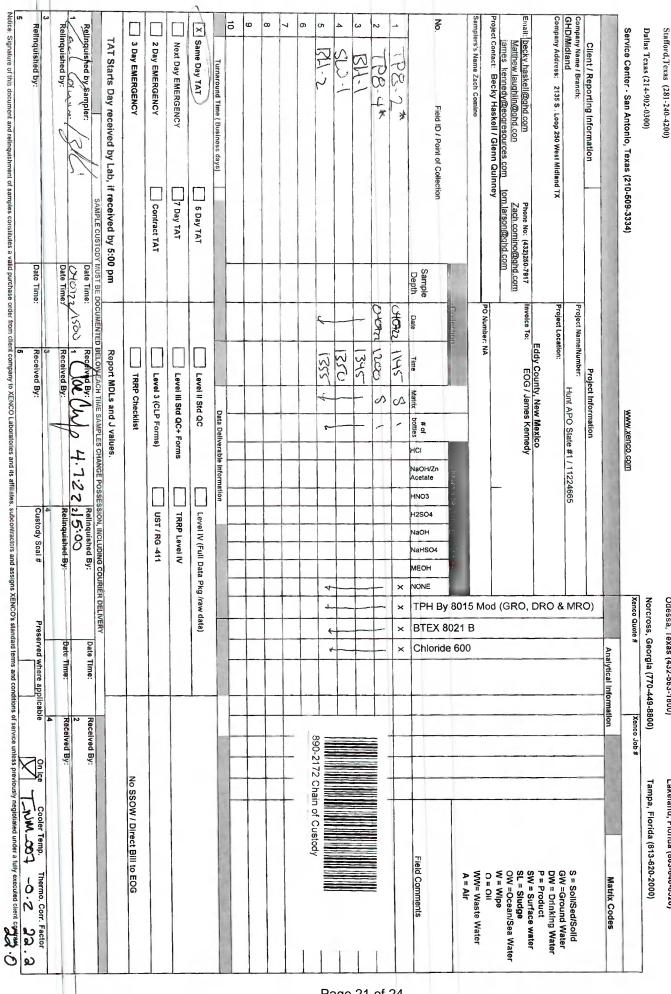
SDG: 11224665

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2172-1	TB8-2*	Solid	04/07/22 11:45	04/07/22 15:00	2
890-2172-2	TP8-4*	Solid	04/07/22 12:00	04/07/22 15:00	4
890-2172-3	BH-1	Solid	04/07/22 13:45	04/07/22 15:00	1
890-2172-4	SW-1	Solid	04/07/22 13:50	04/07/22 15:00	1
890-2172-5	BH-2	Solid	04/07/22 13:55	04/07/22 15:00	2

Setting the Standard since 1990

CHAIN OF CUSTODY

Odessa, Texas (432-563-1800) Lakeland, Florida (863-646-8526)



Eurofins Carlsbad

1000	

_	

	***************************************	Andrew Arthur (Arthur Arthur	°C and Other Remarks.	Cooler Temperature(s) °C	Cooler Te					Custody Seals Intact. Custody Seal No
Company	THE PROPERTY OF THE PROPERTY O	Date/Time		by:	Received by		Company		Date/Time	
Company	CHARLES AND	Date/Time		by.	Received by		Company		Date/Time	Relinquished by
Company	4	Date/Tyme		E	Received	,	Company		Date/Time·	Reindustred by () (M. 4.8.27
	socramente en	Method of Shipment:			7	Time		Date		Empty Kit Relinquished by
07700000	SATISFIED TO SERVICE STATES OF THE SERVICE S		Requireme	Special Instructions/QC	pecial Inst	Sc		able Rank 2	Primary Deliverable Rank	Deliverable Requested V Other (specify)
month) Months	tained longer than 1 Archive For	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	fee may be asses t Dispo	le Disposal (A f Return To Client	ample Dis	Sa				Possible Hazard Identification Unconfirmed
hain-of-custody If the ovided Any changes to ting South Central LLC	nent is forwarded under chiner instructions will be projections. Environment Test	oratories This sample shipm 1 Central LLC laboratory or ot sting to said complicance to E	upon out subcontract lat vironment Testing Sout of Chain of Custody atte	compliance Eurofins Er urn the sign	ccreditation d back to the it to date re	d analyte & aust be shipped ust be shipped ons are curren	e ownership of methor lyzed the samples mure requested accreditation	al LLC places the finatrix being ana mediately If all I	ment Testing South Centred above for analysis/tests Central LLC attention in	If the laboratory docs not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.
The state of the s										
									The same of the sa	
	ید		×	×	×	٥	Solid	13 55 Mountain	4/7/22	BH-2 (890-2172-5)
			×	×	×	<u>а</u> .	Solid	13 50 Mountain	4/7/22	SW-1 (890-2172-4)
			×	×	×	ο.	Solid	13 45 Mountain	4/7/22	BH-1 (890-2172-3)
			×	×	×	<u> </u>	Solid	12 00 Mountain	4/7/22	TP8-4* (890-2172-2)
			×	×	×	α.	Solid	11 45 Mountain	4/7/22	TB8-2* (890-2172-1)
						X	00:1	[_3	W	
Special Instructions /Note	rotal Number		Total_BTEX_G	300_ORGFM_2 8015MOD_Calc	8015MOD_NM/ 8021B/5035FP_	Field Filtered	Sample Matrix Type Sesolld, (C=Comp, O=waste/oil, O=Qirab) BT=Tissue, A=Air.	Sample (Sample Date	Sample Identification - Client ID (Lab ID)
	of con Other		ev		8015NM	contractor and a second		A CONTRACTOR OF THE CONTRACTOR	SSOW#	
W pH 4-5 Z other (specify)	tainer L EDA			EACH	_S_Pn	Section A			Project #: 88000221	Project Name. HUNT APO STATE #1
U Acetone V MCAA	<u>-</u> -			Chlorie	ep Full	o los la companione de			WO#	TOTAL CHARACTER SECTION OF THE PROPERTY OF THE
R Na2S2O3 S H2SO4 T TSP Dodgeshudgete	G Amchlor H Ascorbic Acid			de		»)			PO#	Phone: 432-704-5440(Tel)
P Na2O4S Q Na2SO3	D Nitric Acid E NaHSO4									State Zip TX 79701
M Hexane N None AsNaO2	B NaOH							ays)	TAT Requested (days)	City Midland
- 1		ted	Analysis Requested	Α				ed e	4/11/2022	1211 W Florida Ave
	Job #: 890-2172-1		Texas	Accreditations Required (See note): NELAP - Louisiana, NELAP	litations Rec AP - Louis	Accred NEL	Webtermermanning of the control of t	ANANCH MONOTON TO THE TOTAL TEXTOR THE		Eurofins Environment Testing South Centr
	Page Page 1 of 1	State of Origin New Mexico	com	et.eurofins	@snornn	E-Mail Debbie Simmons@et.eurofinsus	other transport of the state of	Andrew Commence of the Commenc	Pnone	Shipping/Receiving
PARTITON AND AND AND AND AND AND AND AND AND AN	COC No 890-704 1	Carrier Tracking No(s)	Carri		Debbie	Lab PM Simmons			Sampler	Client Information (Sub Contract Lab)
Environment Testing America					ora	/ Kec	Chain of Custody Record			Carisbad NM 88220 Phone 575-988-3199 Fax 575-988-3199
	💸 eurofins				-	J	,			1089 N Canal St

Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 890-2172-1

SDG Number: 11224665

List Source: Eurofins Carlsbad

Login Number: 2172 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2172-1 SDG Number: 11224665

Login Number: 2172
List Source: Eurofins Midland
List Number: 2
List Creation: 04/11/22 08:15 AM

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

,

2

3

4

6

8

11

12



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2174-1

Laboratory Sample Delivery Group: 11224665

Client Project/Site: Hunt APO State #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

Debbie Simmons

Authorized for release by: 4/12/2022 5:18:54 PM

Debbie Simmons, Project Manager (832)986-6768

Debbie.Simmons@et.eurofinsus.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 6/30/2023 10:36:43 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

7

0

10

12

13

Client: GHD Services Inc.

Laboratory Job ID: 890-2174-1

Project/Site: Hunt APO State #1

SDG: 11224665

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	23

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-2174-1 Project/Site: Hunt APO State #1 SDG: 11224665

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Indicates the analyte was analyzed for but not detected.

GC Semi VO	OA
Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description

U

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Job ID: 890-2174-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2174-1

Receipt

The samples were received on 4/8/2022 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 20.8°C Local delivery to lab same day as collection

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-23288 and analytical batch 880-23287 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-23292 and analytical batch 880-23283 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-23292 and analytical batch 880-23283 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-2174-A-1-E MS). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

2

3

4

_

10

12

13

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

SDG: 1

Client Sample ID: BH-3

Date Collected: 04/08/22 07:30

Matrix: Solid

Date Received: 04/08/22 12:00

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000386	U F1	0.00200	0.000386	mg/Kg		04/11/22 09:57	04/11/22 13:10	
Toluene	< 0.000457	U F1	0.00200	0.000457	mg/Kg		04/11/22 09:57	04/11/22 13:10	
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/11/22 09:57	04/11/22 13:10	
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/11/22 09:57	04/11/22 13:10	
o-Xylene	< 0.000345	U	0.00200	0.000345	mg/Kg		04/11/22 09:57	04/11/22 13:10	
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/11/22 09:57	04/11/22 13:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130				04/11/22 09:57	04/11/22 13:10	
1,4-Difluorobenzene (Surr)	106		70 - 130				04/11/22 09:57	04/11/22 13:10	
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			04/11/22 17:12	-
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 12:12	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<15.0	U F1 F2	49.9	15.0	mg/Kg		04/11/22 10:15	04/11/22 11:19	
Diesel Range Organics (Over C10-C28)	<15.0	U F2	49.9	15.0	mg/Kg		04/11/22 10:15	04/11/22 11:19	
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 10:15	04/11/22 11:19	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	81		70 - 130				04/11/22 10:15	04/11/22 11:19	
o-Terphenyl	83		70 - 130				04/11/22 10:15	04/11/22 11:19	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
,									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Client Sample ID: BH-4 Lab Sample ID: 890-2174-2

Date Collected: 04/08/22 07:45 Date Received: 04/08/22 12:00

- - - - - -

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/11/22 09:57	04/11/22 13:31	1
Toluene	< 0.000455	U	0.00200	0.000455	mg/Kg		04/11/22 09:57	04/11/22 13:31	1
Ethylbenzene	< 0.000564	U	0.00200	0.000564	mg/Kg		04/11/22 09:57	04/11/22 13:31	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 09:57	04/11/22 13:31	1
o-Xylene	< 0.000343	U	0.00200	0.000343	mg/Kg		04/11/22 09:57	04/11/22 13:31	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 09:57	04/11/22 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/11/22 09:57	04/11/22 13:31	1

Eurofins Carlsbad

2

3

4

_

0

10

12

13

Matrix: Solid

Client: GHD Services Inc.
Project/Site: Hunt APO State #1

Job ID: 890-2174-1 SDG: 11224665

Matrix: Solid

Lab Sample ID: 890-2174-2

Client Sample ID: BH-4

Date Collected: 04/08/22 07:45 Date Received: 04/08/22 12:00

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (G	C) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	04/11/22 09:57	04/11/22 13:31	1

ı						
ı	Method:	Total	BTFX.	- Total	BTFX	Calculation
ı	moundan					- aioaiatioii

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			04/11/22 17:12	1

Method: 8015 NM - Diesel Range	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.1 J	49.9	15.0 mg/Kg			04/12/22 12:12	1

	, 3 (/ (/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 10:15	04/11/22 12:23	1
Diesel Range Organics (Over C10-C28)	21.1	JB	49.9	15.0	mg/Kg		04/11/22 10:15	04/11/22 12:23	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 10:15	04/11/22 12:23	1
Surrogato	% Pocovory	Qualifier	Limite				Propared	Analyzod	Dil Esc

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91	70 - 130	04/11/22 10:15	04/11/22 12:23	1
o-Terphenyl	97	70 - 130	04/11/22 10:15	04/11/22 12:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifie	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	661	4.97	0.853	mg/Kg			04/12/22 14:42	1

Client Sample ID: SW-2

Date Collected: 04/08/22 09:00

Lab Sample ID: 890-2174-3

Matrix: Solid

Date Collected: 04/08/22 09:00 Date Received: 04/08/22 12:00

Sample Depth: 2

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/11/22 09:57	04/11/22 13:51	1
Toluene	< 0.000454	U	0.00199	0.000454	mg/Kg		04/11/22 09:57	04/11/22 13:51	1
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		04/11/22 09:57	04/11/22 13:51	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/11/22 09:57	04/11/22 13:51	1
o-Xylene	< 0.000343	U	0.00199	0.000343	mg/Kg		04/11/22 09:57	04/11/22 13:51	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/11/22 09:57	04/11/22 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				04/11/22 09:57	04/11/22 13:51	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/11/22 09:57	04/11/22 13:51	1

ı						
ı	Mothod	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			04/11/22 17:12	1

Method: 8015 NM - Diese	Range Or	ganics (F	ORO) (GC)
Method. 0013 MM - Diese	Range On	gariicə (L		GC)

Analyte	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		19.6	J	49.8	14.9	mg/Kg			04/12/22 12:12	1

Eurofins Carlsbad

2

3

1

5

7

9

11

13

mo Canobaa

Client: GHD Services Inc. Job ID: 890-2174-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: SW-2 Lab Sample ID: 890-2174-3

Date Collected: 04/08/22 09:00 Matrix: Solid Date Received: 04/08/22 12:00

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		04/11/22 10:15	04/11/22 12:44	1
Diesel Range Organics (Over C10-C28)	19.6	JB	49.8	14.9	mg/Kg		04/11/22 10:15	04/11/22 12:44	1
Oll Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 10:15	04/11/22 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/11/22 10:15	04/11/22 12:44	1
o-Terphenyl -	92		70 - 130				04/11/22 10:15	04/11/22 12:44	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
rilaryto									

Lab Sample ID: 890-2174-4 **Client Sample ID: SW-3**

Date Collected: 04/08/22 11:00 Matrix: Solid

Date Received: 04/08/22 12:00

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/11/22 09:57	04/11/22 14:12	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/11/22 09:57	04/11/22 14:12	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/11/22 09:57	04/11/22 14:12	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 09:57	04/11/22 14:12	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/11/22 09:57	04/11/22 14:12	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 09:57	04/11/22 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/11/22 09:57	04/11/22 14:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/11/22 09:57	04/11/22 14:12	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			04/11/22 17:12	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.2	J	50.0	15.0	mg/Kg			04/12/22 12:12	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:15	04/11/22 13:06	1
Diesel Range Organics (Over C10-C28)	24.2	JB	50.0	15.0	mg/Kg		04/11/22 10:15	04/11/22 13:06	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 10:15	04/11/22 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				04/11/22 10:15	04/11/22 13:06	1
o-Terphenyl	82		70 - 130				04/11/22 10:15	04/11/22 13:06	1

Client: GHD Services Inc.

Job ID: 890-2174-1

Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: SW-3 Lab Sample ID: 890-2174-4

Date Collected: 04/08/22 11:00 Matrix: Solid

Date Received: 04/08/22 12:00 Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	31.0		4.99	0.857	mg/Kg			04/12/22 15:00	1

5

6

8

10

12

13

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-2174-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2174-1	BH-3	104	106	
390-2174-1 MS	BH-3	103	107	
390-2174-1 MSD	BH-3	109	98	
390-2174-2	BH-4	105	103	
390-2174-3	SW-2	99	104	
390-2174-4	SW-3	100	105	
CS 880-23288/1-A	Lab Control Sample	97	104	
LCSD 880-23288/2-A	Lab Control Sample Dup	97	102	
MB 880-23288/5-A	Method Blank	97	100	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2174-1	BH-3	81	83	
890-2174-1 MS	BH-3	77	68 S1-	
890-2174-1 MSD	BH-3	92	83	
890-2174-2	BH-4	91	97	
890-2174-3	SW-2	87	92	
890-2174-4	SW-3	78	82	
LCS 880-23292/2-A	Lab Control Sample	90	81	
LCSD 880-23292/3-A	Lab Control Sample Dup	92	84	
MB 880-23292/1-A	Method Blank	94	98	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: GHD Services Inc. Job ID: 890-2174-1 SDG: 11224665 Project/Site: Hunt APO State #1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23288/5-A

Matrix: Solid

Analysis Batch: 23287

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23288

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/11/22 09:57	04/11/22 12:41	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/11/22 09:57	04/11/22 12:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/11/22 09:57	04/11/22 12:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/11/22 09:57	04/11/22 12:41	1

Lab Sample ID: LCS 880-23288/1-A

Matrix: Solid

Analysis Batch: 23287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23288

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09572		mg/Kg		96	70 - 130	
Toluene	0.100	0.1067		mg/Kg		107	70 - 130	
Ethylbenzene	0.100	0.1089		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2191		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier 97		Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-23288/2-A

Matrix: Solid

Analysis Batch: 23287

Client Sample ID: Lab Control Sample Dup	Client Sam	ple ID: Lab	Control Sam	ple Dup
--	------------	-------------	--------------------	---------

Prep Type: Total/NA

Prep Batch: 23288

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09510		mg/Kg		95	70 - 130	1	35	
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	2	35	
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130	2	35	
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1.4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2174-1 MS

Matrix: Solid

Analysis Batch: 23287

Client Sample ID: BH-3 Prep Type: Total/NA

Prep Batch: 23288

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.000386	U F1	0.100	0.1337	F1	mg/Kg	_	133	70 - 130	
Toluene	< 0.000457	U F1	0.100	0.1321	F1	mg/Kg		132	70 - 130	

Job ID: 890-2174-1 Client: GHD Services Inc. Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2174-1 MS Client Sample ID: BH-3 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 23287 Prep Batch: 23288 MS MS Sample Sample Snike

Sample	Sample	Spike	IVIO	IVIO				70Kec
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
<0.000566	U	0.100	0.1193		mg/Kg		119	70 - 130
<0.00101	U	0.200	0.2466		mg/Kg		123	70 - 130
<0.000345	U	0.100	0.1142		mg/Kg		114	70 _ 130
	Result < 0.000566 < 0.00101	Result Qualifier	Result Qualifier Added	Result Qualifier Added Result <0.000566	Result Qualifier Added Result Qualifier <0.000566	Result Qualifier Added Result Qualifier Unit <0.000566	Result Qualifier Added Result Qualifier Unit D <0.000566	Result Qualifier Added Result Qualifier Unit D %Rec <0.000566

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 103

1,4-Difluorobenzene (Surr) 107 70 - 130 Lab Sample ID: 890-2174-1 MSD Client Sample ID: BH-3

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 23287** Prep Batch: 23288

Sample Sample Spike MSD MSD RPD RPD Limit Analyte Result Qualifier babbA Result Qualifier %Rec Limits Unit Benzene <0.000386 UF1 0.0996 0.1121 mg/Kg 113 70 - 130 18 35 Toluene <0.000457 UF1 0.0996 0.1283 mg/Kg 129 70 - 130 3 35 Ethylbenzene <0.000566 0.0996 0.1224 123 70 - 130 35 U mg/Kg 3 m-Xylene & p-Xylene < 0.00101 U 0.199 0.2594 mq/Kq 130 70 - 130 5 35 <0.000345 U 0.0996 122 70 - 130 o-Xylene 0.1213 mg/Kg 35

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 109 1,4-Difluorobenzene (Surr) 98 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-23292/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 23283

мв мв Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 04/11/22 10:15 <15.0 U 50.0 15.0 mg/Kg 04/11/22 10:16 Gasoline Range Organics (GRO)-C6-C10 04/11/22 10:16 Diesel Range Organics (Over 20.80 J 50.0 04/11/22 10:15 15.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <15.0 U 50.0 04/11/22 10:15 04/11/22 10:16 15.0 mg/Kg

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 94 70 - 130 04/11/22 10:15 04/11/22 10:16

98 70 - 130 04/11/22 10:15 04/11/22 10:16 o-Terphenyl Lab Sample ID: LCS 880-23292/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 23283** Prep Batch: 23292

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits 1000 77 770 7 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1019 mg/Kg 102 70 - 130

C10-C28)

Eurofins Carlsbad

Prep Batch: 23292

Client: GHD Services Inc. Job ID: 890-2174-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

81

Lab Sample ID: LCS 880-23292/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 23283

Prep Type: Total/NA

Prep Batch: 23292

LCS LCS %Recovery Qualifier Limits 90 70 - 130

Lab Sample ID: LCSD 880-23292/3-A Client Sample ID: Lab Control Sample Dup

70 - 130

Matrix: Solid

Analysis Batch: 23283

Prep Type: Total/NA

Prep Batch: 23292

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 874 1 87 70 - 13013 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 104 1043 mg/Kg 70 - 1302 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 92 70 - 130 1-Chlorooctane 84 70 - 130 o-Terphenyl

Lab Sample ID: 890-2174-1 MS Client Sample ID: BH-3 **Matrix: Solid**

Analysis Batch: 23283

Prep Type: Total/NA Prep Batch: 23292

Sample Sample Spike MS MS Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <15.0 U F1 F2 999 683.1 F1 mg/Kg 68 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <15.0 UF2 999 709.8 mg/Kg 71 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 77 68 S1-70 - 130 o-Terphenyl

Lab Sample ID: 890-2174-1 MSD Client Sample ID: BH-3

Matrix: Solid

Analysis Batch: 23283

Prep Type: Total/NA Prep Batch: 23292

Sample Sample MSD MSD %Rec RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <15.0 U F1 F2 998 865.0 F2 87 Gasoline Range Organics mg/Kg 70 - 130 23 20 (GRO)-C6-C10 Diesel Range Organics (Over <15.0 U F2 998 899.2 F2 mg/Kg 90 70 - 130 24 20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Ternhenyl	83		70 130

Client: GHD Services Inc. Job ID: 890-2174-1 Project/Site: Hunt APO State #1

SDG: 11224665

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23299/1-A **Matrix: Solid**

Client Sample ID: Method Blank **Prep Type: Soluble**

Analysis Batch: 23344

Analyte

Chloride

MB MB Dil Fac Result Qualifier RL MDL Unit D Prepared Analyzed <0.858 U 5.00 0.858 mg/Kg 04/12/22 10:43

Lab Sample ID: LCS 880-23299/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 23344

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 249.6 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-23299/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23344

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 249.4 100 90 - 110 mg/Kg

QC Association Summary

Client: GHD Services Inc.

Job ID: 890-2174-1

Project/Site: Hunt APO State #1

SDG: 11224665

GC VOA

Analysis Batch: 23287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2174-1	BH-3	Total/NA	Solid	8021B	23288
890-2174-2	BH-4	Total/NA	Solid	8021B	23288
890-2174-3	SW-2	Total/NA	Solid	8021B	23288
890-2174-4	SW-3	Total/NA	Solid	8021B	23288
MB 880-23288/5-A	Method Blank	Total/NA	Solid	8021B	23288
LCS 880-23288/1-A	Lab Control Sample	Total/NA	Solid	8021B	23288
LCSD 880-23288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23288
890-2174-1 MS	BH-3	Total/NA	Solid	8021B	23288
890-2174-1 MSD	BH-3	Total/NA	Solid	8021B	23288

Prep Batch: 23288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2174-1	BH-3	Total/NA	Solid	5035	
890-2174-2	BH-4	Total/NA	Solid	5035	
890-2174-3	SW-2	Total/NA	Solid	5035	
890-2174-4	SW-3	Total/NA	Solid	5035	
MB 880-23288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2174-1 MS	BH-3	Total/NA	Solid	5035	
890-2174-1 MSD	BH-3	Total/NA	Solid	5035	

Analysis Batch: 23334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2174-1	BH-3	Total/NA	Solid	Total BTEX	
890-2174-2	BH-4	Total/NA	Solid	Total BTEX	
890-2174-3	SW-2	Total/NA	Solid	Total BTEX	
890-2174-4	SW-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 23283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2174-1	BH-3	Total/NA	Solid	8015B NM	23292
890-2174-2	BH-4	Total/NA	Solid	8015B NM	23292
890-2174-3	SW-2	Total/NA	Solid	8015B NM	23292
890-2174-4	SW-3	Total/NA	Solid	8015B NM	23292
MB 880-23292/1-A	Method Blank	Total/NA	Solid	8015B NM	23292
LCS 880-23292/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23292
LCSD 880-23292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23292
890-2174-1 MS	BH-3	Total/NA	Solid	8015B NM	23292
890-2174-1 MSD	BH-3	Total/NA	Solid	8015B NM	23292

Prep Batch: 23292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2174-1	BH-3	Total/NA	Solid	8015NM Prep	
890-2174-2	BH-4	Total/NA	Solid	8015NM Prep	
890-2174-3	SW-2	Total/NA	Solid	8015NM Prep	
890-2174-4	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-23292/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23292/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

2

3

Ė

6

8

11

13

14

QC Association Summary

Client: GHD Services Inc.

Job ID: 890-2174-1

Project/Site: Hunt APO State #1

SDG: 11224665

GC Semi VOA (Continued)

Prep Batch: 23292 (Continued)

Lab Sample	ID Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-2	3292/3-A Lab Control Sample Du	Total/NA	Solid	8015NM Prep	
890-2174-1	MS BH-3	Total/NA	Solid	8015NM Prep	
890-2174-1	MSD BH-3	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2174-1	BH-3	Total/NA	Solid	8015 NM
890-2174-2	BH-4	Total/NA	Solid	8015 NM
890-2174-3	SW-2	Total/NA	Solid	8015 NM
890-2174-4	SW-3	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 23299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2174-1	BH-3	Soluble	Solid	DI Leach	
890-2174-2	BH-4	Soluble	Solid	DI Leach	
890-2174-3	SW-2	Soluble	Solid	DI Leach	
890-2174-4	SW-3	Soluble	Solid	DI Leach	
MB 880-23299/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23299/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23299/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 23344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2174-1	BH-3	Soluble	Solid	300.0	23299
890-2174-2	BH-4	Soluble	Solid	300.0	23299
890-2174-3	SW-2	Soluble	Solid	300.0	23299
890-2174-4	SW-3	Soluble	Solid	300.0	23299
MB 880-23299/1-A	Method Blank	Soluble	Solid	300.0	23299
LCS 880-23299/2-A	Lab Control Sample	Soluble	Solid	300.0	23299
LCSD 880-23299/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23299

Eurofins Carlsbad

Released to Imaging: 6/30/2023 10:36:43 AM

2

3

6

8

4 0

10

13

Job ID: 890-2174-1

SDG: 11224665

Client Sample ID: BH-3

Date Collected: 04/08/22 07:30 Date Received: 04/08/22 12:00 Lab Sample ID: 890-2174-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23288	04/11/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23287	04/11/22 13:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23334	04/11/22 17:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23379	04/12/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23292	04/11/22 10:15	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23283	04/11/22 11:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23299	04/11/22 11:13	CH	XEN MID
Soluble	Analysis	300.0		1			23344	04/12/22 14:33	CH	XEN MID

Lab Sample ID: 890-2174-2

Matrix: Solid

Date Collected: 04/08/22 07:45 Date Received: 04/08/22 12:00

Client Sample ID: BH-4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23288	04/11/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23287	04/11/22 13:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23334	04/11/22 17:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23379	04/12/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23292	04/11/22 10:15	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23283	04/11/22 12:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23299	04/11/22 11:13	CH	XEN MID
Soluble	Analysis	300.0		1			23344	04/12/22 14:42	CH	XEN MID

Client Sample ID: SW-2 Lab Sample ID: 890-2174-3 **Matrix: Solid**

Date Collected: 04/08/22 09:00 Date Received: 04/08/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23288	04/11/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23287	04/11/22 13:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23334	04/11/22 17:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23379	04/12/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23292	04/11/22 10:15	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23283	04/11/22 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23299	04/11/22 11:13	CH	XEN MID
Soluble	Analysis	300.0		1			23344	04/12/22 14:51	CH	XEN MID

Client Sample ID: SW-3 Lab Sample ID: 890-2174-4

Date Collected: 04/08/22 11:00 Date Received: 04/08/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23288	04/11/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23287	04/11/22 14:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23334	04/11/22 17:12	AJ	XEN MID

Eurofins Carlsbad

Page 16 of 24

Matrix: Solid

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-2174-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: SW-3 Lab Sample ID: 890-2174-4

Date Collected: 04/08/22 11:00 Matrix: Solid Date Received: 04/08/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			23379	04/12/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23292	04/11/22 10:15	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23283	04/11/22 13:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23299	04/11/22 11:13	CH	XEN MID
Soluble	Analysis	300.0		1			23344	04/12/22 15:00	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: GHD Services Inc.

Job ID: 890-2174-1

Project/Site: Hunt APO State #1

SDG: 11224665

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	F	Program	Identification Number	Expiration Date
Texas	N	NELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of		but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

4

5

b

8

10

11

13

Method Summary

Client: GHD Services Inc.
Project/Site: Hunt APO State #1

Job ID: 890-2174-1 SDG: 11224665

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

3

4

6

Ω

9

11

12

Sample Summary

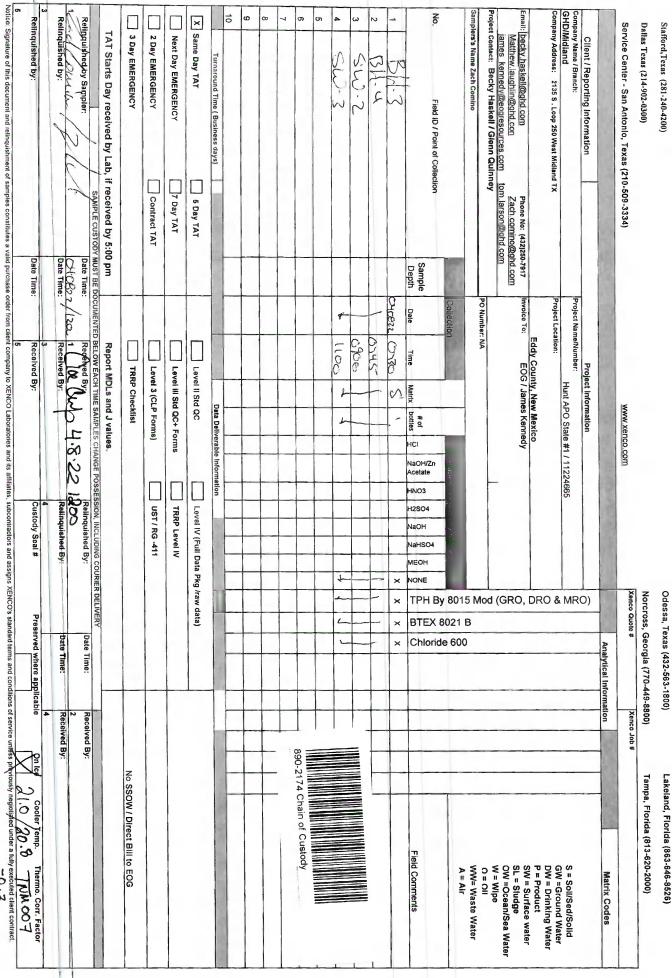
Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-2174-1

SDG: 11224665

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2174-1	BH-3	Solid	04/08/22 07:30	04/08/22 12:00	3
890-2174-2	BH-4	Solid	04/08/22 07:45	04/08/22 12:00	4
890-2174-3	SW-2	Solid	04/08/22 09:00	04/08/22 12:00	2
890-2174-4	SW-3	Solid	04/08/22 11:00	04/08/22 12:00	3

Setting the Standard since 1990

CHAIN OF CUSTODY



890-704 1	3 (4/2)			ct Lab)	Client Information (Sub Contract Lab)	ormation (S	it Inform	Client Inf
COC No.	"	throat water that some table by	Sampler	Sa Sa C-000-0153 FdX 010-855	LIDIE OF CASC LES LEX OF CASC LESS	-Olde Fax	- Of O-800	-
		Chain of Custody Record		5		38220	Carlsbad NM 88220	Carls
: Perofins						מוסטמט	1089 N Canal St	1089
		11 12 13	9	7	6	Eurofine Carlehad	ofine C	2

ironment Testing vrica

Sampler Phone Due Date Requested 4/11/2022 TAT Requested (days)	tet Requested 2022 Squested (days) # # # # # Debte # # # Sample Matrix Matri	## Lab PM Simmons Debbie EMail Debbie Simmons @et.eurofit Noncreditations Required (Selected (days) ## Water Sample (Yes or No) Sample (W=water Type (W=water Debbie Simmons Debbie NELAP - Louisiana NE Debbie Simmons Debbie NelaP NELAP - Louisiana NE Debbie Simmons Debbie NelaP NELAP - Louisiana NEl	Summons Debbie E-Mail Debbie Simmons@et.eurofinsus.com
	Lab Pi Simm E-Mail Debb Matrix (W-water Seale, A-Air) 1 (C washold, O-washold, O-washold, O-washold,	Lab PM Simmons Debbie E-Mail Debbie Simmons@et.eurofit Net Ap - Louisianna Net Ap - Loui	Solid C Sample (Yes or No) Perform MS/N/SD (Yes or No) Perform MS/N/SD (Yes or No) Perform MS/N/SD (Yes or No) 8015MOD_NM/8015NM_S_Prep Full TPH - NM 8021B/6036FP_Calc BTEX (bulk jar/FP prep) 300_ORGFM_28D/DI_LEACH Chloride Analysis Required Analysis Required Analysis Required Total_BTEX_GCV
Carrier Tracking No(s) Carrier Tracking No(s) State of Origin New Mexico Page Page Job # 890-2 Presen A HC B Nac C Zn. C Zn. C Nat F Mexico C American C C Zn. C	Carrier Tracking No(s) Carrier Tracking No(s) Coc No. 890-7 State of Origin New Mexico Page Job # 890-2 Preser Requested A HC B Nat E Nat E Nat G Am H Ass C CAT	Total Number of containers Total Number of containers Page Page Page Page Page Page Page Pag	
Carrier Tracking No(s) State of Origin New Mexico Total Number of containers	Carrier Tracking No(s) COC Novel 1907-704 1 State of Origin Page: New Mexico Page 1 of 1 Jub # 890-2174-1 Preservation Codes A HCL M B NaOH N C 27A Acetate O Nitric Acid Page 1 of 1 los U J DI Water V K EDTA W L EDA Z Special Instru	CCC No: 890-704 1 Page: Page 1 of 1 Job # 890-2174-1 890-2174-1 Preservation Codes A HCL M B NaOH N C Zn Acetate O D Ninfe Acid P E NaHSO4 Q F MeOH S G Amelior S H Ascorbic Acid P C Zn Acetate O D Ninfe Acid P D Ninf	ial Instru

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2174-1 SDG Number: 11224665

Login Number: 2174 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2174-1 SDG Number: 11224665

Login Number: 2174 **List Source: Eurofins Midland** List Number: 2 List Creation: 04/11/22 08:15 AM

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2182-1

Laboratory Sample Delivery Group: 11224665

Client Project/Site: Hunt APO State #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

Debbie Senemons

Authorized for release by: 4/13/2022 11:41:05 AM

Debbie Simmons, Project Manager (832)986-6768

Debbie.Simmons@et.eurofinsus.com

·····LINKS ·······

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 6/30/2023 10:36:43 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

7

ŏ

10

12

Client: GHD Services Inc.

Laboratory Job ID: 890-2182-1

Project/Site: Hunt APO State #1

SDG: 11224665

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	16
Lab Chronicle	19
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Chacklists	26

2

3

4

6

8

10

40

13

Definitions/Glossary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2182-1

SDG: 11224665

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

LOQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

Limit of Quantitation (DoD/DOE)

ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit
NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
POS Positive / Occupitation

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Job ID: 890-2182-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2182-1

Comments

No additional comments.

Receipt

The samples were received on 4/11/2022 2:41 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 25.8° C.

GC VOA

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-23326 and analytical batch 880-23363 recovered outside control limits for several analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The method blank for preparation batch 880-23410 and analytical batch 880-23357 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-23421 and analytical batch 880-23424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Carlsbad 4/13/2022

Lab Sample ID: 890-2182-1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-2182-1 SDG: 11224665 Project/Site: Hunt APO State #1

Client Sample ID: BH-5

Date Collected: 04/11/22 12:30 Date Received: 04/11/22 14:41

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *+	0.00199	0.000383	mg/Kg		04/11/22 16:58	04/12/22 19:45	1
Toluene	< 0.000454	U *+	0.00199	0.000454	mg/Kg		04/11/22 16:58	04/12/22 19:45	1
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		04/11/22 16:58	04/12/22 19:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/11/22 16:58	04/12/22 19:45	1
o-Xylene	< 0.000343	U	0.00199	0.000343	mg/Kg		04/11/22 16:58	04/12/22 19:45	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/11/22 16:58	04/12/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/11/22 16:58	04/12/22 19:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/11/22 16:58	04/12/22 19:45	1
Method: Total BTEX - Total B'	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			04/13/22 10:18	1
Method: 8015 NM - Diesel Rai Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	19.8	J	49.9	15.0	mg/Kg			04/13/22 09:50	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:03	1
Diesel Range Organics (Over C10-C28)	19.8	JB	49.9	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:03	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/12/22 16:53	04/12/22 23:03	1
o-Terphenyl	99		70 - 130				04/12/22 16:53	04/12/22 23:03	1
Method: 300.0 - Anions, Ion C	hromatogra	nhy - Soli	ıhle						

Client Sample ID: BH-6

Date Collected: 04/11/22 12:35 Date Received: 04/11/22 14:41

Released to Imaging: 6/30/2023 10:36:43 AM

Sample Depth: 6

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *+	0.00199	0.000383	mg/Kg		04/11/22 16:58	04/12/22 20:11	1
Toluene	< 0.000453	U *+	0.00199	0.000453	mg/Kg		04/11/22 16:58	04/12/22 20:11	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/11/22 16:58	04/12/22 20:11	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 16:58	04/12/22 20:11	1
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		04/11/22 16:58	04/12/22 20:11	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 16:58	04/12/22 20:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/11/22 16:58	04/12/22 20:11	1

5.00

0.858 mg/Kg

345 F1

Eurofins Carlsbad

Lab Sample ID: 890-2182-2

04/13/22 02:35

Matrix: Solid

Lab Sample ID: 890-2182-2

Client Sample Results

Client: GHD Services Inc.

Job ID: 890-2182-1

Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: BH-6

Date Collected: 04/11/22 12:35 Date Received: 04/11/22 14:41

Sample Depth: 6

Surrogate	%Recovery Qualifi	ier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90	70 - 130	04/11/22 16:58	04/12/22 20:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00100	U	0.00398	0.00100	mg/Kg			04/13/22 10:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.6	J	49.9	15.0	mg/Kg			04/13/22 09:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:23	1
Diesel Range Organics (Over C10-C28)	25.6	JB	49.9	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:23	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86	70 - 130	04/12/22 16:53	04/12/22 23:23	1
o-Terphenyl	99	70 - 130	04/12/22 16:53	04/12/22 23:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	498	4.99	0.857 mg/Kg			04/13/22 03:03	1

Client Sample ID: BH-7

Date Collected: 04/11/22 13:00

Lab Sample ID: 890-2182-3

Matrix: Solid

Date Collected: 04/11/22 13:00 Date Received: 04/11/22 14:41

Sample Depth: 7

Mothod: 9021B	Volatile	Organic	Compounds	(CC)

Michiga. 002 ID - Volatile O	igaine compo	unus (GO)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *+	0.00200	0.000384	mg/Kg		04/11/22 16:58	04/12/22 20:38	1
Toluene	< 0.000455	U *+	0.00200	0.000455	mg/Kg		04/11/22 16:58	04/12/22 20:38	1
Ethylbenzene	< 0.000564	U	0.00200	0.000564	mg/Kg		04/11/22 16:58	04/12/22 20:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 16:58	04/12/22 20:38	1
o-Xylene	< 0.000343	U	0.00200	0.000343	mg/Kg		04/11/22 16:58	04/12/22 20:38	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 16:58	04/12/22 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/11/22 16:58	04/12/22 20:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/11/22 16:58	04/12/22 20:38	1
_									

Mothodi	Total DTEV	- Total RTFX	Coloulation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			04/13/22 10:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.7 J	50.0	15.0 mg/Kg			04/13/22 09:50	1

Eurofins Carlsbad

2

2

Λ

5

7

9

Lab Sample ID: 890-2182-3

Client: GHD Services Inc. Job ID: 890-2182-1 SDG: 11224665 Project/Site: Hunt APO State #1

Client Sample ID: BH-7

Date Collected: 04/11/22 13:00 Date Received: 04/11/22 14:41

Sample Depth: 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:44	1
Diesel Range Organics (Over C10-C28)	21.7	JB	50.0	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:44	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/12/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/12/22 16:53	04/12/22 23:44	1
o-Terphenyl	108		70 - 130				04/12/22 16:53	04/12/22 23:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	41.9	4.95	0.850 mg/Kg			04/13/22 03:12	1	

Client Sample ID: BH-8 Lab Sample ID: 890-2182-4 Date Collected: 04/11/22 13:05 **Matrix: Solid**

Date Received: 04/11/22 14:41

Sample Depth: 8

Method: 8021B - Volatile Orga	nic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *+	0.00200	0.000384	mg/Kg		04/11/22 16:58	04/12/22 21:04	1
Toluene	<0.000455	U *+	0.00200	0.000455	mg/Kg		04/11/22 16:58	04/12/22 21:04	1
Ethylbenzene	< 0.000564	U	0.00200	0.000564	mg/Kg		04/11/22 16:58	04/12/22 21:04	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 16:58	04/12/22 21:04	1
o-Xylene	< 0.000343	U	0.00200	0.000343	mg/Kg		04/11/22 16:58	04/12/22 21:04	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 16:58	04/12/22 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/11/22 16:58	04/12/22 21:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/11/22 16:58	04/12/22 21:04	1
Method: Total BTEX - Total B	ΓEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			04/13/22 10:18	1
Method: 8015 NM - Diesel Rar	nge Organio	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.3	J	50.0	15.0	mg/Kg			04/13/22 09:50	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 00:04	1
Diesel Range Organics (Over C10-C28)	21.3	JB	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 00:04	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/12/22 16:53	04/13/22 00:04	1
o-Terphenyl									

Eurofins Carlsbad

Client Sample Results

Client: GHD Services Inc.

Job ID: 890-2182-1
Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: BH-8 Lab Sample ID: 890-2182-4

Date Collected: 04/11/22 13:05

Date Received: 04/11/22 14:41

Matrix: Solid

Sample Depth: 8

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	191		5.04	0.865	mg/Kg			04/13/22 03:21	1

Client Sample ID: BH-9 Lab Sample ID: 890-2182-5

Date Collected: 04/11/22 13:10 Date Received: 04/11/22 14:41

Sample Depth: 9

C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *+	0.00199	0.000383	mg/Kg		04/11/22 16:58	04/12/22 21:30	1
Toluene	< 0.000454	U *+	0.00199	0.000454	mg/Kg		04/11/22 16:58	04/12/22 21:30	1
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		04/11/22 16:58	04/12/22 21:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/11/22 16:58	04/12/22 21:30	1
o-Xylene	< 0.000343	U	0.00199	0.000343	mg/Kg		04/11/22 16:58	04/12/22 21:30	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/11/22 16:58	04/12/22 21:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				04/11/22 16:58	04/12/22 21:30	1
1,4-Difluorobenzene (Surr)	83		70 - 130				04/11/22 16:58	04/12/22 21:30	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			04/13/22 10:18	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	GC)						
	g- 3.game	- (-:) (-	,						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.9	J	49.9	15.0	mg/Kg			04/13/22 09:50	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 00:25	1
Diesel Range Organics (Over	20.9	JB	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 00:25	1

Oll Range Organics (Over C28-C36)	<15.0 U	49.9	15.0 mg/Kg	04/12/22 16:53	04/13/22 00:25	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	88	70 - 130		04/12/22 16:53	04/13/22 00:25	1
o-Terphenvl	103	70 - 130		04/12/22 16:53	04/13/22 00:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		4.97	0.853	mg/Kg			04/13/22 03:30	1

Eurofins Carlsbad

3

4

6

9

11

13

Lab Sample ID: 890-2182-6

Client Sample Results

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2182-1

SDG: 11224665

Client Sample ID: BH-10

Date Collected: 04/11/22 13:15 Date Received: 04/11/22 14:41

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *+	0.00199	0.000383	mg/Kg		04/11/22 16:58	04/12/22 21:56	1
Toluene	< 0.000453	U *+	0.00199	0.000453	mg/Kg		04/11/22 16:58	04/12/22 21:56	1
Ethylbenzene	< 0.000562	U	0.00199	0.000562	mg/Kg		04/11/22 16:58	04/12/22 21:56	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 16:58	04/12/22 21:56	1
o-Xylene	< 0.000342	U	0.00199	0.000342	mg/Kg		04/11/22 16:58	04/12/22 21:56	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 16:58	04/12/22 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/11/22 16:58	04/12/22 21:56	1
1,4-Difluorobenzene (Surr)	91		70 - 130				04/11/22 16:58	04/12/22 21:56	1
Method: Total BTEX - Total B ⁻	TEX Calcula	tion							
A L . 4 .	Pocult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	IXL.	14106	•		i icpaica	,a.y = 0 a	
Total BTEX	<0.00100		0.00398	0.00100			Troparca	04/13/22 10:18	1
	<0.00100	U	0.00398		mg/Kg	<u></u> D	Prepared		1
Total BTEX Method: 8015 NM - Diesel Rai	<0.00100	s (DRO) (O	0.00398 GC)	0.00100	mg/Kg		· · ·	04/13/22 10:18	
Total BTEX Method: 8015 NM - Diesel Rai Analyte	<0.00100 nge Organic Result 20.6	s (DRO) (G Qualifier J	0.00398 GC) RL 49.9	0.00100 MDL	mg/Kg Unit		· · ·	04/13/22 10:18 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH	<0.00100 nge Organic Result 20.6 ange Organ	s (DRO) (G Qualifier J	0.00398 GC) RL 49.9	0.00100 MDL	mg/Kg Unit mg/Kg		· · ·	04/13/22 10:18 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R	<0.00100 nge Organic Result 20.6 ange Organ	s (DRO) (O Qualifier J ics (DRO) Qualifier	0.00398 GC) RL 49.9	0.00100 MDL 15.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	04/13/22 10:18 Analyzed 04/13/22 09:50 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00100 nge Organic Result 20.6 ange Organ Result	S (DRO) (O Qualifier J ics (DRO) Qualifier	0.00398 GC) RL 49.9 (GC) RL	0.00100 MDL 15.0 MDL 15.0	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared 04/12/22 16:53	04/13/22 10:18 Analyzed 04/13/22 09:50 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00100 nge Organic Result 20.6 ange Organ Result <15.0	S (DRO) (O Qualifier J ics (DRO) Qualifier U J B	0.00398 RL 49.9 (GC) RL 49.9	0.00100 MDL 15.0 MDL 15.0	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 04/12/22 16:53 04/12/22 16:53	04/13/22 10:18 Analyzed 04/13/22 09:50 Analyzed 04/13/22 00:45	Dil Fac
Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00100 nge Organic Result 20.6 ange Organ Result <15.0 20.6	S (DRO) (O Qualifier J ics (DRO) Qualifier U J B	0.00398 RL 49.9 (GC) RL 49.9 49.9	0.00100 MDL 15.0 MDL 15.0	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 04/12/22 16:53 04/12/22 16:53	Analyzed 04/13/22 09:50 Analyzed 04/13/22 09:45 04/13/22 00:45	Dil Fac
Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00100 nge Organic Result 20.6 ange Organ Result <15.0 20.6 <15.0	S (DRO) (O Qualifier J ics (DRO) Qualifier U J B	0.00398 RL 49.9 (GC) RL 49.9 49.9	0.00100 MDL 15.0 MDL 15.0	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 04/12/22 16:53 04/12/22 16:53	04/13/22 10:18 Analyzed 04/13/22 09:50 Analyzed 04/13/22 00:45 04/13/22 00:45	Dil Fac

Client Sample ID: BH-11

Date Collected: 04/11/22 13:20 Date Received: 04/11/22 14:41

Date Received: 04/11/

Analyte

Chloride

Sample Depth: 11

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *+	0.00201	0.000387	mg/Kg		04/11/22 16:58	04/12/22 22:22	1
Toluene	<0.000458	U *+	0.00201	0.000458	mg/Kg		04/11/22 16:58	04/12/22 22:22	1
Ethylbenzene	< 0.000567	U	0.00201	0.000567	mg/Kg		04/11/22 16:58	04/12/22 22:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/11/22 16:58	04/12/22 22:22	1
o-Xylene	< 0.000345	U	0.00201	0.000345	mg/Kg		04/11/22 16:58	04/12/22 22:22	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/11/22 16:58	04/12/22 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/11/22 16:58	04/12/22 22:22	1

RL

4.98

MDL Unit

0.855 mg/Kg

D

Prepared

Analyzed

04/13/22 03:58

Lab Sample ID: 890-2182-7

Dil Fac

Matrix: Solid

Result Qualifier

112

Eurofins Carlsbad

Client: GHD Services Inc.

Job ID: 890-2182-1 SDG: 11224665

Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: BH-11 Lab Sample ID: 890-2182-7

Date Collected: 04/11/22 13:20 Matrix: Solid
Date Received: 04/11/22 14:41

Sample Depth: 11

Method: 8021B - Volatile Organic Compounds (GC) (Continued)							
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4.4.5:(0		70 400	0.4/44/00.40.50	0.4/4.0/00.00:00			

1,4-Difluorobenzene (Surr)	84	70 - 130	04/11/22 16:58 04/12/22 22:22	
Method: Total BTEX - Total BTE	:X Calculation			

Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			04/13/22 10:18	1

	Method: 8015 NM - Diesel Range	e Organics (DRO) (GC))					
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	21.0 J	50.0	15.0 mg/Kg			04/13/22 09:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 01:26	1
Diesel Range Organics (Over C10-C28)	21.0	JB	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 01:26	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

	, ,	-,			· ···· y = · ··	
1-Chlorooctane	86		70 - 130	04/12/22 16:53	04/13/22 01:26	1
o-Terphenyl	100		70 - 130	04/12/22 16:53	04/13/22 01:26	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble			

 Analyte
 Result Chloride
 Qualifier 352
 RL 4.95
 MDL 0.850
 Unit mg/Kg
 D mg/Kg
 Prepared 0.4/13/22 04:07
 Analyzed 0.4/13/22 04:07
 Dil Fac 0.4/13/22 04:07

 Client Sample ID: BH-12
 Lab Sample ID: 890-2182-8

Date Collected: 04/11/22 13:25 Date Received: 04/11/22 14:41

Sample Depth: 12

Analyte

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U *+	0.00200	0.000386	mg/Kg		04/11/22 16:58	04/12/22 22:48	1
Toluene	< 0.000457	U *+	0.00200	0.000457	mg/Kg		04/11/22 16:58	04/12/22 22:48	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/11/22 16:58	04/12/22 22:48	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/11/22 16:58	04/12/22 22:48	1
o-Xylene	< 0.000345	U	0.00200	0.000345	mg/Kg		04/11/22 16:58	04/12/22 22:48	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/11/22 16:58	04/12/22 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/11/22 16:58	04/12/22 22:48	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/11/22 16:58	04/12/22 22:48	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	TT .	0.00401	0.00101	mg/Kg		-	04/13/22 10:18	

Eurofins Carlsbad

Analyzed

04/13/22 09:50

Prepared

RL

49.9

MDL Unit

15.0 mg/Kg

Dil Fac

2

4

5

0

10

12

13

olins Carisbac

Matrix: Solid

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier

40.2 J

Lab Sample ID: 890-2182-8

Client Sample Results

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Client Sample ID: BH-12

Date Collected: 04/11/22 13:25 Date Received: 04/11/22 14:41

Sample Depth: 12

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.0	J	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 01:47	1
Diesel Range Organics (Over C10-C28)	20.2	JB	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 01:47	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/12/22 16:53	04/13/22 01:47	1
o-Terphenyl	110		70 - 130				04/12/22 16:53	04/13/22 01:47	1

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		4.99	0.857	mg/Kg			04/13/22 04:16	1

Eurofins Carlsbad

-

3

3

5

7

0

10

11

13

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-2182-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Perc	ent Surrogate R
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2182-1	BH-5	107	94	
890-2182-2	BH-6	114	90	
890-2182-3	BH-7	116	90	
890-2182-4	BH-8	116	92	
890-2182-5	BH-9	81	83	
890-2182-6	BH-10	110	91	
890-2182-7	BH-11	105	84	
890-2182-8	BH-12	115	93	
LCS 880-23326/1-A	Lab Control Sample	101	102	
LCSD 880-23326/2-A	Lab Control Sample Dup	111	100	
MB 880-23326/5-A	Method Blank	73	86	
Surrogate Legend BFB = 4-Bromofluorob				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
890-2182-1	BH-5	86	99				
890-2182-2	BH-6	86	99				
890-2182-3	BH-7	92	108				
890-2182-4	BH-8	89	103				
890-2182-5	BH-9	88	103				
890-2182-6	BH-10	88	103				
890-2182-7	BH-11	86	100				
890-2182-8	BH-12	94	110				

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percen	t Surrogate Recovery (Acceptance Limit
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-23410/2-A	Lab Control Sample	91	108	
LCSD 880-23410/3-A	Lab Control Sample Dup	102	123	
MB 880-23410/1-A	Method Blank	88	107	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Eurofins Carlsbad

QC Sample Results

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2182-1

SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23326/5-A

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23326

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				04/11/22 16:58	04/12/22 12:36	1

70 - 130

Lab Sample ID: LCS 880-23326/1-A

Matrix: Solid

Analysis Batch: 23363

1,4-Difluorobenzene (Surr)

Client Sample ID: Lab Control Sample Prep Type: Total/NA

04/11/22 16:58 04/12/22 12:36

Prep Batch: 23326

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1328	*+	mg/Kg		133	70 - 130	
Toluene	0.100	0.1240		mg/Kg		124	70 - 130	
Ethylbenzene	0.100	0.1084		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2254		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1067		mg/Kg		107	70 - 130	

LCS LCS

86

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-23326/2-A

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 23326

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1527	*+	mg/Kg		153	70 - 130	14	35
Toluene	0.100	0.1433	*+	mg/Kg		143	70 - 130	14	35
Ethylbenzene	0.100	0.1239		mg/Kg		124	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2565		mg/Kg		128	70 - 130	13	35
o-Xylene	0.100	0.1220		mg/Kg		122	70 - 130	13	35

	L	CSD	LCSD
--	---	-----	------

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Eurofins Carlsbad

2

5

5

7

10

11 12

13

QC Sample Results

Client: GHD Services Inc. Job ID: 890-2182-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-23410/1-A

Lab Sample ID: LCS 880-23410/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 23357

Analysis Batch: 23357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23410

ı		MB	МВ							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/12/22 19:58	1
	Diesel Range Organics (Over C10-C28)	18.06	J	50.0	15.0	mg/Kg		04/12/22 16:53	04/12/22 19:58	1
	Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/12/22 19:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	04/12/22 16:53	04/12/22 19:58	1
o-Terphenyl	107		70 - 130	04/12/22 16:53	04/12/22 19:58	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23410

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1073		mg/Kg		107	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	991.2		mg/Kg		99	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	91	70 - 130
o-Terphenyl	108	70 - 130

Lab Sample ID: LCSD 880-23410/3-A

Chika

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prop Ratch: 23410

% Poc

	Spike	LCGD	LCOD				/01 \C C		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1089		mg/Kg		109	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1009		mg/Kg		101	70 - 130	2	20	
C10-C28)										
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	AnalyteAddedGasoline Range Organics1000(GRO)-C6-C101000Diesel Range Organics (Over1000	Analyte Added Result Gasoline Range Organics 1000 1089 (GRO)-C6-C10 000 1000 1009 Diesel Range Organics (Over 1000 1009	AnalyteAddedResultQualifierGasoline Range Organics10001089(GRO)-C6-C1010001009Diesel Range Organics (Over10001009	Analyte Added Result Qualifier Unit Gasoline Range Organics 1000 1089 mg/Kg (GRO)-C6-C10 0 1000 1009 mg/Kg Diesel Range Organics (Over 1000 1009 mg/Kg	AnalyteAddedResultQualifierUnitDGasoline Range Organics10001089mg/Kg(GRO)-C6-C10010001009mg/KgDiesel Range Organics (Over10001009mg/Kg	Analyte Added Result Qualifier Unit D %Rec Gasoline Range Organics 1000 1089 mg/Kg 109 (GRO)-C6-C10 0 1000 1009 mg/Kg 101 Diesel Range Organics (Over 1000 1009 mg/Kg 101	Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1089 mg/Kg 109 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1009 mg/Kg 101 70 - 130	Analyte Added Result Qualifier Unit D %Rec Limits RPD Gasoline Range Organics 1000 1089 mg/Kg 109 70 - 130 1 (GRO)-C6-C10 0 1000 1009 mg/Kg 101 70 - 130 2	Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 1089 mg/Kg 109 70 - 130 1 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1009 mg/Kg 101 70 - 130 2 20

LCCD LCCD

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	102	70 - 130
o-Terphenyl	123	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23421/1-A **Client Sample ID: Method Blank Matrix: Solid**

Analysis Batch: 23424

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <0.858 U 5.00 0.858 mg/Kg 04/13/22 02:08

Eurofins Carlsbad

Prep Type: Soluble

QC Sample Results

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2182-1

SDG: 11224665

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-23421/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble

Analysis Batch: 23424

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits D 250 Chloride 249.0 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-23421/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 23424

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 242.0 90 - 110 mg/Kg 97 3

Lab Sample ID: 890-2182-1 MS

Matrix: Solid

Client Sample ID: BH-5

Prep Type: Soluble

Analysis Batch: 23424

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 345 F1 250 568.4 F1 89 mg/Kg

Lab Sample ID: 890-2182-1 MSD

Matrix: Solid

Analysis Batch: 23424

Sample Sample Spike MSD MSD %Rec **RPD** Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 345 F1 250 600.4 102 mg/Kg 90 - 110

Eurofins Carlsbad

Client Sample ID: BH-5

Prep Type: Soluble

QC Association Summary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2182-1

SDG: 11224665

GC VOA

Prep Batch: 23326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-1	BH-5	Total/NA	Solid	5035	
890-2182-2	BH-6	Total/NA	Solid	5035	
890-2182-3	BH-7	Total/NA	Solid	5035	
890-2182-4	BH-8	Total/NA	Solid	5035	
890-2182-5	BH-9	Total/NA	Solid	5035	
890-2182-6	BH-10	Total/NA	Solid	5035	
890-2182-7	BH-11	Total/NA	Solid	5035	
890-2182-8	BH-12	Total/NA	Solid	5035	
MB 880-23326/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23326/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23326/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 23363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-1	BH-5	Total/NA	Solid	8021B	23326
890-2182-2	BH-6	Total/NA	Solid	8021B	23326
890-2182-3	BH-7	Total/NA	Solid	8021B	23326
890-2182-4	BH-8	Total/NA	Solid	8021B	23326
890-2182-5	BH-9	Total/NA	Solid	8021B	23326
890-2182-6	BH-10	Total/NA	Solid	8021B	23326
890-2182-7	BH-11	Total/NA	Solid	8021B	23326
890-2182-8	BH-12	Total/NA	Solid	8021B	23326
MB 880-23326/5-A	Method Blank	Total/NA	Solid	8021B	23326
LCS 880-23326/1-A	Lab Control Sample	Total/NA	Solid	8021B	23326
LCSD 880-23326/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23326

Analysis Batch: 23442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-1	BH-5	Total/NA	Solid	Total BTEX	
890-2182-2	BH-6	Total/NA	Solid	Total BTEX	
890-2182-3	BH-7	Total/NA	Solid	Total BTEX	
890-2182-4	BH-8	Total/NA	Solid	Total BTEX	
890-2182-5	BH-9	Total/NA	Solid	Total BTEX	
890-2182-6	BH-10	Total/NA	Solid	Total BTEX	
890-2182-7	BH-11	Total/NA	Solid	Total BTEX	
890-2182-8	BH-12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 23357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-1	BH-5	Total/NA	Solid	8015B NM	23410
890-2182-2	BH-6	Total/NA	Solid	8015B NM	23410
890-2182-3	BH-7	Total/NA	Solid	8015B NM	23410
890-2182-4	BH-8	Total/NA	Solid	8015B NM	23410
890-2182-5	BH-9	Total/NA	Solid	8015B NM	23410
890-2182-6	BH-10	Total/NA	Solid	8015B NM	23410
890-2182-7	BH-11	Total/NA	Solid	8015B NM	23410
890-2182-8	BH-12	Total/NA	Solid	8015B NM	23410
MB 880-23410/1-A	Method Blank	Total/NA	Solid	8015B NM	23410
LCS 880-23410/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23410

Eurofins Carlsbad

1

3

Л

6

8

3

11

13

QC Association Summary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2182-1

SDG: 11224665

GC Semi VOA (Continued)

Analysis Batch: 23357 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-23410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23410

Prep Batch: 23410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-1	BH-5	Total/NA	Solid	8015NM Prep	
890-2182-2	BH-6	Total/NA	Solid	8015NM Prep	
890-2182-3	BH-7	Total/NA	Solid	8015NM Prep	
890-2182-4	BH-8	Total/NA	Solid	8015NM Prep	
890-2182-5	BH-9	Total/NA	Solid	8015NM Prep	
890-2182-6	BH-10	Total/NA	Solid	8015NM Prep	
890-2182-7	BH-11	Total/NA	Solid	8015NM Prep	
890-2182-8	BH-12	Total/NA	Solid	8015NM Prep	
MB 880-23410/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23410/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-1	BH-5	Total/NA	Solid	8015 NM	_
890-2182-2	BH-6	Total/NA	Solid	8015 NM	
890-2182-3	BH-7	Total/NA	Solid	8015 NM	
890-2182-4	BH-8	Total/NA	Solid	8015 NM	
890-2182-5	BH-9	Total/NA	Solid	8015 NM	
890-2182-6	BH-10	Total/NA	Solid	8015 NM	
890-2182-7	BH-11	Total/NA	Solid	8015 NM	
890-2182-8	BH-12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-1	BH-5	Soluble	Solid	DI Leach	
890-2182-2	BH-6	Soluble	Solid	DI Leach	
890-2182-3	BH-7	Soluble	Solid	DI Leach	
890-2182-4	BH-8	Soluble	Solid	DI Leach	
890-2182-5	BH-9	Soluble	Solid	DI Leach	
890-2182-6	BH-10	Soluble	Solid	DI Leach	
890-2182-7	BH-11	Soluble	Solid	DI Leach	
890-2182-8	BH-12	Soluble	Solid	DI Leach	
MB 880-23421/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23421/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23421/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2182-1 MS	BH-5	Soluble	Solid	DI Leach	
890-2182-1 MSD	BH-5	Soluble	Solid	DI Leach	

Analysis Batch: 23424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-1	BH-5	Soluble	Solid	300.0	23421
890-2182-2	BH-6	Soluble	Solid	300.0	23421
890-2182-3	BH-7	Soluble	Solid	300.0	23421
890-2182-4	BH-8	Soluble	Solid	300.0	23421

Eurofins Carlsbad

Page 17 of 27

QC Association Summary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

HPLC/IC (Continued)

Analysis Batch: 23424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2182-5	BH-9	Soluble	Solid	300.0	23421
890-2182-6	BH-10	Soluble	Solid	300.0	23421
890-2182-7	BH-11	Soluble	Solid	300.0	23421
890-2182-8	BH-12	Soluble	Solid	300.0	23421
MB 880-23421/1-A	Method Blank	Soluble	Solid	300.0	23421
LCS 880-23421/2-A	Lab Control Sample	Soluble	Solid	300.0	23421
LCSD 880-23421/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23421
890-2182-1 MS	BH-5	Soluble	Solid	300.0	23421
890-2182-1 MSD	BH-5	Soluble	Solid	300.0	23421

3

4

6

9

10

12

13

SDG: 11224665

Client Sample ID: BH-5

Project/Site: Hunt APO State #1

Client: GHD Services Inc.

Date Collected: 04/11/22 12:30 Date Received: 04/11/22 14:41

Lab Sample ID: 890-2182-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23326	04/11/22 16:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/12/22 19:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23442	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23438	04/13/22 09:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 23:03	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 02:35	CH	XEN MID

Client Sample ID: BH-6 Lab Sample ID: 890-2182-2 Date Collected: 04/11/22 12:35 **Matrix: Solid**

Date Received: 04/11/22 14:41

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method Number or Analyzed Type Run **Factor Amount** Amount **Analyst** Lab Total/NA Prep 5035 5.03 g 5 mL 23326 04/11/22 16:58 MR XEN MID Total/NA 8021B 5 mL 23363 04/12/22 20:11 MR XEN MID Analysis 5 mL 1 Total/NA Total BTEX 04/13/22 10:18 AJ Analysis 1 23442 XEN MID Total/NA 8015 NM 23438 04/13/22 09:50 AJ XEN MID Analysis 1 Total/NA Prep 8015NM Prep 10.03 g 10 mL 23410 04/12/22 16:53 DM XEN MID Total/NA 8015B NM 23357 04/12/22 23:23 AJ XEN MID Analysis 1 Soluble 5.01 g 50 mL 23421 04/12/22 17:07 CH XEN MID Leach DI Leach Soluble 300.0 04/13/22 03:03 CH Analysis 1 23424 XEN MID

Client Sample ID: BH-7 Lab Sample ID: 890-2182-3 Date Collected: 04/11/22 13:00 Matrix: Solid

Date Received: 04/11/22 14:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23326	04/11/22 16:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/12/22 20:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23442	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23438	04/13/22 09:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 23:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 03:12	CH	XEN MID

Client Sample ID: BH-8 Lab Sample ID: 890-2182-4 Date Collected: 04/11/22 13:05 Matrix: Solid

Date Received: 04/11/22 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23326	04/11/22 16:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/12/22 21:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23442	04/13/22 10:18	AJ	XEN MID

Eurofins Carlsbad

Page 19 of 27

Job ID: 890-2182-1

SDG: 11224665

Client Sample ID: BH-8

Project/Site: Hunt APO State #1

Client: GHD Services Inc.

Date Collected: 04/11/22 13:05 Date Received: 04/11/22 14:41

Lab Sample ID: 890-2182-4

Matrix: Solid

Matrix: Solid

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
P	гер Туре	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
T	otal/NA	Analysis	8015 NM		1			23438	04/13/22 09:50	AJ	XEN MID
T	otal/NA	Prep	8015NM Prep			10.01 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
T	otal/NA	Analysis	8015B NM		1			23357	04/13/22 00:04	AJ	XEN MID
S	oluble	Leach	DI Leach			4.96 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
S	oluble	Analysis	300.0		1			23424	04/13/22 03:21	CH	XEN MID

Client Sample ID: BH-9 Lab Sample ID: 890-2182-5 Date Collected: 04/11/22 13:10 **Matrix: Solid**

Date Received: 04/11/22 14:41

Dil Initial Final **Batch Batch Batch** Prepared Method Amount Number **Prep Type** Type Run **Factor Amount** or Analyzed **Analyst** Lab Total/NA Prep 5035 23326 5.02 g 04/11/22 16:58 MR XEN MID 5 mL Total/NA Analysis 8021B 1 5 mL 5 mL 23363 04/12/22 21:30 MR XEN MID

Total/NA Analysis Total BTEX 1 23442 04/13/22 10:18 AJ XEN MID Total/NA 8015 NM 04/13/22 09:50 AJ XEN MID Analysis 1 23438 Total/NA Prep 23410 04/12/22 16:53 DM XEN MID 8015NM Prep 10.02 g 10 mL Total/NA 8015B NM 04/13/22 00:25 AJ Analysis 1 23357 **XEN MID** 04/12/22 17:07 CH Soluble Leach DI Leach 5.03 g 50 mL 23421 XEN MID 04/13/22 03:30 CH XEN MID Soluble Analysis 300.0 1 23424

Lab Sample ID: 890-2182-6 Client Sample ID: BH-10

Date Collected: 04/11/22 13:15 Date Received: 04/11/22 14:41

Batch **Batch** Dil Initial Final **Batch** Prepared **Prep Type** Type Method Run **Factor Amount Amount** Number or Analyzed Analyst Lab 23326 Total/NA Prep 5035 5.03 g 5 mL 04/11/22 16:58 MR XEN MID Total/NA Analysis 8021B 1 5 mL 5 mL 23363 04/12/22 21:56 MR **XEN MID** Total/NA Analysis **Total BTEX** 1 23442 04/13/22 10:18 AJ XEN MID Total/NA 8015 NM Analysis 1 23438 04/13/22 09:50 AJ **XEN MID** Total/NA Prep 8015NM Prep 23410 04/12/22 16:53 DM XEN MID 10.03 g 10 mL Total/NA Analysis 8015B NM 1 23357 04/13/22 00:45 AJ XEN MID Soluble Leach DI Leach 5.02 g 50 mL 23421 04/12/22 17:07 CH **XEN MID** Soluble Analysis 300.0 1 23424 04/13/22 03:58 CH XEN MID

Client Sample ID: BH-11 Lab Sample ID: 890-2182-7 Date Collected: 04/11/22 13:20 **Matrix: Solid**

Date Received: 04/11/22 14:41

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23326	04/11/22 16:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/12/22 22:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23442	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23438	04/13/22 09:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	23410 23357	04/12/22 16:53 04/13/22 01:26		XEN MID XEN MID

Eurofins Carlsbad

Page 20 of 27

Lab Chronicle

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2182-1

SDG: 11224665

Client Sample ID: BH-11

Date Collected: 04/11/22 13:20 Date Received: 04/11/22 14:41 Lab Sample ID: 890-2182-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 04:07	СН	XEN MID

Client Sample ID: BH-12

Date Collected: 04/11/22 13:25

Lab Sample ID: 890-2182-8

Matrix: Solid

Date Collected: 04/11/22 13:25 Date Received: 04/11/22 14:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23326	04/11/22 16:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/12/22 22:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23442	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23438	04/13/22 09:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/13/22 01:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23421	04/12/22 17:07	СН	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 04:16	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

2

3

6

7

3

11

13

Accreditation/Certification Summary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analyte	e are included in this reno	art but the laboratory is r	ant nortified by the governing outbarity	This list may include analytes for u
the agency does not	offer certification.	•	not certified by the governing authority.	This list may include analytes for w
	•	Matrix	Analyte	This list may include analytes for w
the agency does not	offer certification.	•	, , ,	This list may include analytes for w

Eurofins Carlsbad

Method Summary

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-2182-1

SDG: 11224665

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-2182-1

SDG: 11224665

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2182-1	BH-5	Solid	04/11/22 12:30	04/11/22 14:41	5
890-2182-2	BH-6	Solid	04/11/22 12:35	04/11/22 14:41	6
890-2182-3	BH-7	Solid	04/11/22 13:00	04/11/22 14:41	7
890-2182-4	BH-8	Solid	04/11/22 13:05	04/11/22 14:41	8
890-2182-5	BH-9	Solid	04/11/22 13:10	04/11/22 14:41	9
890-2182-6	BH-10	Solid	04/11/22 13:15	04/11/22 14:41	10
890-2182-7	BH-11	Solid	04/11/22 13:20	04/11/22 14:41	11
890-2182-8	BH-12	Solid	04/11/22 13:25	04/11/22 14:41	12

Setting the Standard since 1990

CHAIN OF CUSTODY

volice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service No. Samplers's Name Zach Comino Company Address: 2135 S . Loop 250 West Midland TX GHD/Midland Project Contact: Becky Haskell / Glenn Quinney ð 3 Day EMERGENCY X Same Day TAT Relinquished by: Relinquished by Sampler Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) Stafford, Texas (281-240-4200) Relinquished by Client / Reporting Information pany Name / Branch: becky.haskell@ghd.com
Matthew.laughlin@ghd.con
James kennedy@eogresources.com TAT Starts Day received by Lab, if received by 5:00 pm 2 Day EMERGENCY Next Day EMERGENCY N 7-112 BH-6 RH-9 \Rightarrow Turnaround Time (Business days) 7.0 $\frac{1}{0}$ Field ID / Point of Collection Phone No: (432)250-7917
Zach.comino@ghd.com
tom.larson@ghd.com Contract TAT 7 Day TAT SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVER 5 Day TAT Date Time: Date Time: Date Time: Sample Depth OHUNZ Invoice To: Chhi Project Location: Project Name/Nu 1230 318 1235 Eddy County, New Mexico
EOG / James Kennedy 1320 1310 300 Report MDLs and J values. 1325 130 Received By: TRRP Checklist Recollyed By: Time Level 3 (CLP Forms) Level III Std QC+ Forms Project Information Level II Std QC Hunt APO State #1 / 11224665 Matrix # of + HCI NaOH/Zn Acetate HNO3 Relinquished By: Custody Seal # 12504 UST / RG -411 TRRP Level IV Level IV (Full Data Pkg /raw data) ИЕОН Odessa, Texas (432-563-1800) Norcross, Georgia (770-449-8800) TPH By 8015 Mod (GRO, DRO & MRO) Preserved where applicable BTEX 8021 B Date Time: Chloride 600 Analytical Information Time: Xenco Job # Received By: Received By: 890-2182 Chain of Custody No SSOW / Direct Bill to EOG Tampa, Florida (813-620-2000) Lakeland, Florida (863-646-8526) 26.0/25.8 giotifited under a by executed client contract ield Comments SL = Sludge OW =Ocean/Sea Water P = Product S = Soil/Sed/Solid GW =Ground Water A = AirW = Wipe SW = Surface water WW= Waste Water 0=0 DW = Drinking Water Matrix Codes FOO-MIN-Factor

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2182-1

SDG Number: 11224665

Login Number: 2182 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

Eurofins Carlsbad

Released to Imaging: 6/30/2023 10:36:43 AM

1

2

3

Δ

5

8

10

10

13

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2182-1 SDG Number: 11224665

Login Number: 2182 **List Source: Eurofins Midland** List Creation: 04/12/22 06:09 PM List Number: 2

Creator: Carlisle, Spring

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2187-1

Laboratory Sample Delivery Group: 11224665

Client Project/Site: Hunt APO State #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

Debbie Simmons

Authorized for release by: 4/13/2022 12:18:30 PM

Debbie Simmons, Project Manager (832)986-6768

Debbie.Simmons@et.eurofinsus.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 6/30/2023 10:36:43 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

7

8

1 N

40

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Laboratory Job ID: 890-2187-1 SDG: 11224665

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	16
Lab Chronicle	19
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	26

Definitions/Glossary

Client: GHD Services Inc.

Job ID: 890-2187-1

Project/Site: Hunt APO State #1

SDG: 11224665

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
--------------	---

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Job ID: 890-2187-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2187-1

Comments

No additional comments.

Receipt

The samples were received on 4/12/2022 1:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 24.8° C. Local delivery to lab same day as collection

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: The method blank for preparation batch 880-23410 and analytical batch 880-23357 contained AffectedAnalytes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

3

5

6

1

9

12

16

Matrix: Solid

Lab Sample ID: 890-2187-1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-2187-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: BH-13

Date Collected: 04/12/22 08:00 Date Received: 04/12/22 13:10

Sample Depth: 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		04/12/22 14:39	04/13/22 03:26	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		04/12/22 14:39	04/13/22 03:26	1
Ethylbenzene	< 0.000570	U	0.00202	0.000570	mg/Kg		04/12/22 14:39	04/13/22 03:26	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		04/12/22 14:39	04/13/22 03:26	1
o-Xylene	< 0.000347	U	0.00202	0.000347	mg/Kg		04/12/22 14:39	04/13/22 03:26	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		04/12/22 14:39	04/13/22 03:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				04/12/22 14:39	04/13/22 03:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/12/22 14:39	04/13/22 03:26	1
Analyte Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			04/13/22 10:19	-
Total BTEX Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (G	SC)				Propared		Dil Fa
Total BTEX Method: 8015 NM - Diesel Rar Analyte	nge Organic	s (DRO) (G		MDL		<u>D</u>	Prepared	04/13/22 10:19 Analyzed 04/13/22 09:50	
Total BTEX	nge Organic Result 20.7	s (DRO) (G Qualifier J	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	1
Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra	nge Organic Result 20.7	S (DRO) (O Qualifier J ics (DRO) (Qualifier	RL 50.0	MDL 15.0	Unit mg/Kg	=		Analyzed 04/13/22 09:50	
Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics	nge Organic Result 20.7 ange Organ Result <15.0	s (DRO) (O Qualifier J ics (DRO) Qualifier	RL 50.0	MDL 15.0 MDL 15.0	Unit mg/Kg Unit	=	Prepared 04/12/22 16:53	Analyzed 04/13/22 09:50 Analyzed	Dil Fac
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organic Result 20.7 ange Organ Result <15.0	s (DRO) (G Qualifier J ics (DRO) (Qualifier U	RL 50.0	MDL 15.0 MDL 15.0	Unit mg/Kg Unit mg/Kg	=	Prepared 04/12/22 16:53 04/12/22 16:53	Analyzed 04/13/22 09:50 Analyzed 04/13/22 02:07	Dil Fac Dil Fac 1 1 1 1 1

	, ,	-,			·,	
1-Chlorooctane	85		70 - 130	04/12/22 16:53	04/13/22 02:07	1
o-Terphenyl	99		70 - 130	04/12/22 16:53	04/13/22 02:07	1
Method: 300 0 - Anions Ion Cl	romatogra	nhy - Solu	hle			

Analyte Result Qualifier

RL **MDL** Unit D Prepared Analyzed Dil Fac 4.96 0.851 mg/Kg 04/13/22 04:25 **Chloride** 459

Client Sample ID: BH-14 Date Collected: 04/12/22 08:30 Date Received: 04/12/22 13:10

Sample Depth: 14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		04/12/22 14:39	04/13/22 03:47	1
Toluene	< 0.000459	U	0.00201	0.000459	mg/Kg		04/12/22 14:39	04/13/22 03:47	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/12/22 14:39	04/13/22 03:47	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		04/12/22 14:39	04/13/22 03:47	1
o-Xylene	< 0.000346	U	0.00201	0.000346	mg/Kg		04/12/22 14:39	04/13/22 03:47	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/12/22 14:39	04/13/22 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/12/22 14:39	04/13/22 03:47	1

Eurofins Carlsbad

Lab Sample ID: 890-2187-2

Matrix: Solid

Job ID: 890-2187-1 SDG: 11224665

Client: GHD Services Inc. Project/Site: Hunt APO State #1

Lab Sample ID: 890-2187-2

Date Collected: 04/12/22 08:30 Date Received: 04/12/22 13:10

Client Sample ID: BH-14

Matrix: Solid

Sample Depth: 14

Method: 8021B - Volatile Orga	nic Compounds (GC) (Continued)			
Surrogate	%Recovery Qualifier Limits	Prepared	Analyzed	_

Dil Fac 70 - 130 1,4-Difluorobenzene (Surr) 04/12/22 14:39 04/13/22 03:47

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac <0.00102 U Total BTEX 0.00402 0.00102 mg/Kg 04/13/22 10:19

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier MDL Unit RL D Prepared Analyzed Dil Fac 49.9 15.0 mg/Kg 04/13/22 09:50 **Total TPH** 20.3 J

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 02:28	1
Diesel Range Organics (Over C10-C28)	20.3	JB	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 02:28	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 02:28	1
Curronata	9/ Bassyony	Qualifier	Limita				Droporod	Analyzad	Dil Ess

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	04/12/22 16:53	04/13/22 02:28	1
o-Terphenyl	98		70 - 130	04/12/22 16:53	04/13/22 02:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac Chloride 337 5.01 0.860 mg/Kg 04/13/22 04:35

Client Sample ID: BH-15 Lab Sample ID: 890-2187-3 Matrix: Solid

Date Collected: 04/12/22 09:00 Date Received: 04/12/22 13:10

Sample Depth: 15

Mothod: 9021B	Volatile	Organic	Compounds	(CC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		04/12/22 14:39	04/13/22 04:07	1
Toluene	< 0.000461	U	0.00202	0.000461	mg/Kg		04/12/22 14:39	04/13/22 04:07	1
Ethylbenzene	< 0.000571	U	0.00202	0.000571	mg/Kg		04/12/22 14:39	04/13/22 04:07	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		04/12/22 14:39	04/13/22 04:07	1
o-Xylene	< 0.000347	U	0.00202	0.000347	mg/Kg		04/12/22 14:39	04/13/22 04:07	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		04/12/22 14:39	04/13/22 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/12/22 14:39	04/13/22 04:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/12/22 14:39	04/13/22 04:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.7 J	50.0	15.0 mg/Kg	:		04/13/22 09:50	1

Client: GHD Services Inc. Job ID: 890-2187-1 SDG: 11224665 Project/Site: Hunt APO State #1

Client Sample ID: BH-15 Lab Sample ID: 890-2187-3

Date Collected: 04/12/22 09:00 **Matrix: Solid** Date Received: 04/12/22 13:10

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 02:48	1
Diesel Range Organics (Over C10-C28)	20.7	JB	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 02:48	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 02:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/12/22 16:53	04/13/22 02:48	1
o-Terphenyl	96		70 - 130				04/12/22 16:53	04/13/22 02:48	1

Analyte Result Qualifier RL **MDL** Unit Dil Fac D Prepared Analyzed Chloride 4.97 0.853 mg/Kg 04/13/22 04:44 385

Client Sample ID: BH-16 Lab Sample ID: 890-2187-4 Date Collected: 04/12/22 09:30 Matrix: Solid

Date Received: 04/12/22 13:10

Sample Depth: 16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		04/12/22 14:39	04/13/22 04:28	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		04/12/22 14:39	04/13/22 04:28	1
Ethylbenzene	< 0.000570	U	0.00202	0.000570	mg/Kg		04/12/22 14:39	04/13/22 04:28	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		04/12/22 14:39	04/13/22 04:28	1
o-Xylene	< 0.000347	U	0.00202	0.000347	mg/Kg		04/12/22 14:39	04/13/22 04:28	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		04/12/22 14:39	04/13/22 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/12/22 14:39	04/13/22 04:28	1
1,4-Difluorobenzene (Surr)	87		70 - 130				04/12/22 14:39	04/13/22 04:28	1
Method: Total BTEX - Total BT	EX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			04/13/22 10:19	1
Method: 8015 NM - Diesel Ran	ge Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.4	J	50.0	15.0	mg/Kg			04/13/22 09:50	1
Method: 8015B NM - Diesel Ra	ınge Organ	ics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:09	1
Diesel Range Organics (Over C10-C28)	20.4	JB	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:09	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/12/22 16:53	04/13/22 03:09	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-2187-1 SDG: 11224665 Project/Site: Hunt APO State #1

Client Sample ID: BH-16 Lab Sample ID: 890-2187-4 Date Collected: 04/12/22 09:30

Date Received: 04/12/22 13:10

Matrix: Solid

Sample Depth: 16

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solub	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		4.98	0.855	mg/Kg			04/13/22 05:11	1

Client Sample ID: BH-17 Lab Sample ID: 890-2187-5

Date Collected: 04/12/22 10:00 Matrix: Solid

Date Received: 04/12/22 13:10

Sample Depth: 17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		04/12/22 14:39	04/13/22 04:48	1
Toluene	< 0.000457	U	0.00200	0.000457	mg/Kg		04/12/22 14:39	04/13/22 04:48	1
Ethylbenzene	< 0.000566	U	0.00200	0.000566	mg/Kg		04/12/22 14:39	04/13/22 04:48	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/22 14:39	04/13/22 04:48	1
o-Xylene	< 0.000345	U	0.00200	0.000345	mg/Kg		04/12/22 14:39	04/13/22 04:48	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/22 14:39	04/13/22 04:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/12/22 14:39	04/13/22 04:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/12/22 14:39	04/13/22 04:48	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed 04/13/22 10:19	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			04/13/22 10:19	1
_ Mothod: 8015 NM - Diosol Pan	ao Organio	e (DPO) (C	2C)						

Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.1	J	50.0	15.0	mg/Kg		-	04/13/22 09:50	1
Method: 8015B NM - Diesel Rang	ge Organ	ics (DRO) (GC)							

mothodi co lob itm. Blocol ita	ango organi	.00 (B.10)	(00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:30	1
Diesel Range Organics (Over C10-C28)	21.1	JB	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:30	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/12/22 16:53	04/13/22 03:30	1
o-Terphenyl	97		70 - 130				04/12/22 16:53	04/13/22 03:30	1

Method: 300.0 - Anions, Ion Ch	nromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		5.00	0.858	mg/Kg			04/13/22 05:21	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-2187-1 SDG: 11224665 Project/Site: Hunt APO State #1

Client Sample ID: 8 BH-1

Lab Sample ID: 890-2187-6 Date Collected: 04/12/22 12:00 Matrix: Solid Date Received: 04/12/22 13:10

Sample Depth: 17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/12/22 14:39	04/13/22 05:08	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/12/22 14:39	04/13/22 05:08	1
Ethylbenzene	< 0.000564	U	0.00200	0.000564	mg/Kg		04/12/22 14:39	04/13/22 05:08	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/12/22 14:39	04/13/22 05:08	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/12/22 14:39	04/13/22 05:08	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/12/22 14:39	04/13/22 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/12/22 14:39	04/13/22 05:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/12/22 14:39	04/13/22 05:08	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			04/13/22 10:19	1
Method: 8015 NM - Diesel Rai Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed 04/13/22 09:50	Dil Fac
Total TPH	36.0	J	49.9	15.0	mg/Kg			04/13/22 09:50	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:50	1
Diesel Range Organics (Over C10-C28)	36.0	JB	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:50	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/12/22 16:53	04/13/22 03:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/12/22 16:53	04/13/22 03:50	1
o-Terphenyl	99		70 - 130				04/12/22 16:53	04/13/22 03:50	1
	N								
Method: 300.0 - Anions, Ion C	inromatogra	ipny - Soit	IDIE						

Client Sample ID: 8 SW-1 Lab Sample ID: 890-2187-7 Date Collected: 04/12/22 12:05 Matrix: Solid

5.00

0.858 mg/Kg

487

Date Received: 04/12/22 13:10

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/12/22 14:39	04/13/22 05:29	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/12/22 14:39	04/13/22 05:29	1
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		04/12/22 14:39	04/13/22 05:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/12/22 14:39	04/13/22 05:29	1
o-Xylene	< 0.000343	U	0.00199	0.000343	mg/Kg		04/12/22 14:39	04/13/22 05:29	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/12/22 14:39	04/13/22 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/12/22 14:39	04/13/22 05:29	1

Eurofins Carlsbad

04/13/22 05:48

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2187-1

SDG: 11224665

Client Sample ID: 8 SW-1 Lab Sample ID: 890-2187-7

Date Collected: 04/12/22 12:05

Date Received: 04/12/22 13:10

Matrix: Solid

Sample Depth: 1

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 13		04/13/22 05:29	1

Method: Total I	RTFY - Tota	IRTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00101	U	0.00398	0.00101	ma/Ka			04/13/22 10:19	1

Method: 8015 NM	- Diesel Range Or	rganics (DRO) (G	C)
INICUIOG. OU IU ITIN	- Diesei Runge Oi	gaines (bite) (e	- ,

Analyte	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		21.4	J	50.0	15.0	mg/Kg			04/13/22 09:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 04:11	1
Diesel Range Organics (Over C10-C28)	21.4	JB	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 04:11	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	04/12/22 16:53	04/13/22 04:11	1
o-Terphenyl	100		70 - 130	04/12/22 16:53	04/13/22 04:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.6	4.99	0.857 mg/Kg			04/13/22 05:57	1

Client Sample ID: 8 SW-2

Date Collected: 04/12/22 12:10

Lab Sample ID: 890-2187-8

Matrix: Solid

Date Collected: 04/12/22 12:10 Date Received: 04/12/22 13:10

Sample Depth: 2

Mothod: 9021B	Volatile	Organic	Compounds	(CC)

Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		04/12/22 14:39	04/13/22 05:49	1
Toluene	< 0.000460	U	0.00202	0.000460	mg/Kg		04/12/22 14:39	04/13/22 05:49	1
Ethylbenzene	< 0.000570	U	0.00202	0.000570	mg/Kg		04/12/22 14:39	04/13/22 05:49	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		04/12/22 14:39	04/13/22 05:49	1
o-Xylene	< 0.000347	U	0.00202	0.000347	mg/Kg		04/12/22 14:39	04/13/22 05:49	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		04/12/22 14:39	04/13/22 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/12/22 14:39	04/13/22 05:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/12/22 14:39	04/13/22 05:49	1

Method: Total	DTEV To	FOLDTEV (Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg		<u> </u>	04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.3 J	50.0	15.0 mg/Kg			04/13/22 09:50	1

Eurofins Carlsbad

1

2

3

5

_

8

10

12

Matrix: Solid

Lab Sample ID: 890-2187-8

Client Sample Results

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2187-1

SDG: 11224665

Client Sample ID: 8 SW-2

Date Collected: 04/12/22 12:10 Date Received: 04/12/22 13:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 04:31	1
Diesel Range Organics (Over C10-C28)	26.3	JB	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 04:31	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/22 16:53	04/13/22 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				04/12/22 16:53	04/13/22 04:31	1
o-Terphenyl	94		70 - 130				04/12/22 16:53	04/13/22 04:31	1

Method: 300.0 - Anions, Ion Ch	nromatogra	phy - Solub	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		4.95	0.850	mg/Kg			04/13/22 06:07	1

Eurofins Carlsbad

2

3

4

6

8

J 6

1 1

4.0

Surrogate Summary

Job ID: 890-2187-1 Client: GHD Services Inc. Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	t Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2187-1	BH-13	99	97	
890-2187-2	BH-14	103	99	
890-2187-3	BH-15	104	97	
890-2187-4	BH-16	103	87	
890-2187-5	BH-17	100	96	
890-2187-6	8 BH-1	102	96	
890-2187-7	8 SW-1	101	97	
890-2187-8	8 SW-2	104	97	
LCS 880-23398/1-A	Lab Control Sample	103	101	
LCSD 880-23398/2-A	Lab Control Sample Dup	98	99	
MB 880-23368/5-A	Method Blank	99	93	
MB 880-23398/5-A	Method Blank	101	94	

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1001		urrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2187-1	BH-13	85	99	
890-2187-2	BH-14	85	98	
890-2187-3	BH-15	85	96	
890-2187-4	BH-16	89	102	
890-2187-5	BH-17	86	97	
890-2187-6	8 BH-1	88	99	
890-2187-7	8 SW-1	86	100	
890-2187-8	8 SW-2	83	94	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Perce	ent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-23410/2-A	Lab Control Sample	91	108	
LCSD 880-23410/3-A	Lab Control Sample Dup	102	123	
MB 880-23410/1-A	Method Blank	88	107	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: GHD Services Inc. Job ID: 890-2187-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23368/5-A

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23368

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.000385 U 0.00200 0.000385 mg/Kg 04/12/22 10:28 04/12/22 11:24 Toluene <0.000456 U 0.00200 0.000456 mg/Kg 04/12/22 10:28 04/12/22 11:24 Ethylbenzene 0.000565 mg/Kg 04/12/22 10:28 04/12/22 11:24 <0.000565 U 0.00200 m-Xylene & p-Xylene <0.00101 U 0.00400 0.00101 mg/Kg 04/12/22 10:28 04/12/22 11:24 0.00200 o-Xylene <0.000344 U 0.000344 mg/Kg 04/12/22 10:28 04/12/22 11:24 Xylenes, Total <0.00101 U 0.00400 0.00101 mg/Kg 04/12/22 10:28 04/12/22 11:24

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/12/22 10:28	04/12/22 11:24	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/12/22 10:28	04/12/22 11:24	1

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 23398

Matrix: Solid

Lab Sample ID: MB 880-23398/5-A

Analysis Batch: 23364

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
Ethylbenzene	< 0.000565	U	0.00200	0.000565	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/22 14:39	04/12/22 21:59	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/12/22 14:39	04/12/22 21:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/12/22 14:39	04/12/22 21:59	1

Lab Sample ID: LCS 880-23398/1-A

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 23398

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08711		mg/Kg		87	70 - 130	
Toluene	0.100	0.08910		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09094		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.09375		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-23398/2-A

Matrix: Solid							Prep ly	pe: lot	al/NA
Analysis Batch: 23364							Prep E	Batch: 2	23398
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08416		mg/Kg		84	70 - 130	3	35

QC Sample Results

Client: GHD Services Inc. Job ID: 890-2187-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-23398/2-A

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23398

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08527		mg/Kg		85	70 - 130	4	35
Ethylbenzene	0.100	0.08789		mg/Kg		88	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1752		mg/Kg		88	70 - 130	3	35
o-Xylene	0.100	0.08928		mg/Kg		89	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-23410/1-A

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23410

MB MB Result Qualifier Analyte RI **MDL** Unit Prepared Analyzed Dil Fac <15.0 U 50.0 04/12/22 16:53 04/12/22 19:58 Gasoline Range Organics 15.0 mg/Kg (GRO)-C6-C10 04/12/22 16:53 04/12/22 19:58 Diesel Range Organics (Over 18.06 J 50.0 15.0 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <15.0 U 50.0 04/12/22 16:53 04/12/22 19:58 15.0 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	04/12/22 16:53	04/12/22 19:58	1
o-Terphenyl	107		70 - 130	04/12/22 16:53	04/12/22 19:58	1

Lab Sample ID: LCS 880-23410/2-A

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23410

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec 1000 70 - 130 Gasoline Range Organics 1073 107 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 991.2 mg/Kg 99 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-23410/3-A

Matrix: Solid

Analysis Batch: 23357

Gasoline Range Organics

Diesel Range Organics (Over

Client Sample ID: Lab Control Sample Dup

D %Rec

109

101

70 - 130

Prep Type: Total/NA

Prep Batch: 23410

%Rec **RPD** Limits Limit **RPD** 70 - 130 20

C10-C28)

(GRO)-C6-C10

Analyte

Eurofins Carlsbad

2

20

Spike Added

1000

1000

LCSD LCSD

1089

1009

Result Qualifier

Unit

mg/Kg

mg/Kg

QC Sample Results

Client: GHD Services Inc. Job ID: 890-2187-1 SDG: 11224665 Project/Site: Hunt APO State #1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-23410/3-A

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 23410

LCSD LCSD %Recovery Qualifier Surrogate Limits

1-Chlorooctane 102 70 - 130 o-Terphenyl 123 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23421/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23424

MB MB

Result Qualifier RL **MDL** Unit **Analyte** Prepared Analyzed Dil Fac <0.858 U 5.00 04/13/22 02:08 Chloride 0.858 mg/Kg

Lab Sample ID: LCS 880-23421/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23424

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 249.0 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-23421/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23424

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 250 90 - 110 Chloride 242.0 mg/Kg 97

Lab Sample ID: 890-2187-3 MS **Client Sample ID: BH-15 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23424

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec 249 385 617.2 93 90 - 110 Chloride mg/Kg

Lab Sample ID: 890-2187-3 MSD Client Sample ID: BH-15 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23424

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chloride 385 249 613.6 92 90 - 110 20 mg/Kg

Client: GHD Services Inc.

Job ID: 890-2187-1

Project/Site: Hunt APO State #1

SDG: 11224665

GC VOA

Analysis Batch: 23364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2187-1	BH-13	Total/NA	Solid	8021B	23398
890-2187-2	BH-14	Total/NA	Solid	8021B	23398
890-2187-3	BH-15	Total/NA	Solid	8021B	23398
890-2187-4	BH-16	Total/NA	Solid	8021B	23398
890-2187-5	BH-17	Total/NA	Solid	8021B	23398
890-2187-6	8 BH-1	Total/NA	Solid	8021B	23398
890-2187-7	8 SW-1	Total/NA	Solid	8021B	23398
890-2187-8	8 SW-2	Total/NA	Solid	8021B	23398
MB 880-23368/5-A	Method Blank	Total/NA	Solid	8021B	23368
MB 880-23398/5-A	Method Blank	Total/NA	Solid	8021B	23398
LCS 880-23398/1-A	Lab Control Sample	Total/NA	Solid	8021B	23398
LCSD 880-23398/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23398

Prep Batch: 23368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23368/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2187-1	BH-13	Total/NA	Solid	5035	
890-2187-2	BH-14	Total/NA	Solid	5035	
890-2187-3	BH-15	Total/NA	Solid	5035	
890-2187-4	BH-16	Total/NA	Solid	5035	
890-2187-5	BH-17	Total/NA	Solid	5035	
890-2187-6	8 BH-1	Total/NA	Solid	5035	
890-2187-7	8 SW-1	Total/NA	Solid	5035	
890-2187-8	8 SW-2	Total/NA	Solid	5035	
MB 880-23398/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23398/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23398/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 23448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2187-1	BH-13	Total/NA	Solid	Total BTEX	
890-2187-2	BH-14	Total/NA	Solid	Total BTEX	
890-2187-3	BH-15	Total/NA	Solid	Total BTEX	
890-2187-4	BH-16	Total/NA	Solid	Total BTEX	
890-2187-5	BH-17	Total/NA	Solid	Total BTEX	
890-2187-6	8 BH-1	Total/NA	Solid	Total BTEX	
890-2187-7	8 SW-1	Total/NA	Solid	Total BTEX	
890-2187-8	8 SW-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 23357

Lab Sample ID 890-2187-1	Client Sample ID BH-13	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 23410
890-2187-2	BH-14	Total/NA	Solid	8015B NM	23410
890-2187-3	BH-15	Total/NA	Solid	8015B NM	23410
890-2187-4	BH-16	Total/NA	Solid	8015B NM	23410
890-2187-5	BH-17	Total/NA	Solid	8015B NM	23410

Eurofins Carlsbad

Page 16 of 27

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2187-1

SDG: 11224665

GC Semi VOA (Continued)

Analysis Batch: 23357 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2187-6	8 BH-1	Total/NA	Solid	8015B NM	23410
890-2187-7	8 SW-1	Total/NA	Solid	8015B NM	23410
890-2187-8	8 SW-2	Total/NA	Solid	8015B NM	23410
MB 880-23410/1-A	Method Blank	Total/NA	Solid	8015B NM	23410
LCS 880-23410/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23410
LCSD 880-23410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23410

Prep Batch: 23410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2187-1	BH-13	Total/NA	Solid	8015NM Prep	
890-2187-2	BH-14	Total/NA	Solid	8015NM Prep	
890-2187-3	BH-15	Total/NA	Solid	8015NM Prep	
890-2187-4	BH-16	Total/NA	Solid	8015NM Prep	
890-2187-5	BH-17	Total/NA	Solid	8015NM Prep	
890-2187-6	8 BH-1	Total/NA	Solid	8015NM Prep	
890-2187-7	8 SW-1	Total/NA	Solid	8015NM Prep	
890-2187-8	8 SW-2	Total/NA	Solid	8015NM Prep	
MB 880-23410/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23410/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2187-1	BH-13	Total/NA	Solid	8015 NM	_
890-2187-2	BH-14	Total/NA	Solid	8015 NM	
890-2187-3	BH-15	Total/NA	Solid	8015 NM	
890-2187-4	BH-16	Total/NA	Solid	8015 NM	
890-2187-5	BH-17	Total/NA	Solid	8015 NM	
890-2187-6	8 BH-1	Total/NA	Solid	8015 NM	
890-2187-7	8 SW-1	Total/NA	Solid	8015 NM	
890-2187-8	8 SW-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2187-1	BH-13	Soluble	Solid	DI Leach	
890-2187-2	BH-14	Soluble	Solid	DI Leach	
890-2187-3	BH-15	Soluble	Solid	DI Leach	
890-2187-4	BH-16	Soluble	Solid	DI Leach	
890-2187-5	BH-17	Soluble	Solid	DI Leach	
890-2187-6	8 BH-1	Soluble	Solid	DI Leach	
890-2187-7	8 SW-1	Soluble	Solid	DI Leach	
890-2187-8	8 SW-2	Soluble	Solid	DI Leach	
MB 880-23421/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23421/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23421/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2187-3 MS	BH-15	Soluble	Solid	DI Leach	
890-2187-3 MSD	BH-15	Soluble	Solid	DI Leach	

Eurofins Carlsbad

Released to Imaging: 6/30/2023 10:36:43 AM

2

4

6

8

10

12

13

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2187-1

SDG: 11224665

HPLC/IC

Analysis Batch: 23424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2187-1	BH-13	Soluble	Solid	300.0	23421
890-2187-2	BH-14	Soluble	Solid	300.0	23421
890-2187-3	BH-15	Soluble	Solid	300.0	23421
890-2187-4	BH-16	Soluble	Solid	300.0	23421
890-2187-5	BH-17	Soluble	Solid	300.0	23421
890-2187-6	8 BH-1	Soluble	Solid	300.0	23421
890-2187-7	8 SW-1	Soluble	Solid	300.0	23421
890-2187-8	8 SW-2	Soluble	Solid	300.0	23421
MB 880-23421/1-A	Method Blank	Soluble	Solid	300.0	23421
LCS 880-23421/2-A	Lab Control Sample	Soluble	Solid	300.0	23421
LCSD 880-23421/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23421
890-2187-3 MS	BH-15	Soluble	Solid	300.0	23421
890-2187-3 MSD	BH-15	Soluble	Solid	300.0	23421

4

5

6

8

9

10

11

13

Job ID: 890-2187-1 SDG: 11224665

Project/Site: Hunt APO State #1 Client Sample ID: BH-13

Client: GHD Services Inc.

Date Collected: 04/12/22 08:00 Date Received: 04/12/22 13:10

Lab Sample ID: 890-2187-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 03:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23448	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23439	04/13/22 09:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/13/22 02:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 04:25	CH	XEN MID

Client Sample ID: BH-14 Lab Sample ID: 890-2187-2 Date Collected: 04/12/22 08:30 **Matrix: Solid**

Date Received: 04/12/22 13:10

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method Amount Number or Analyzed Type Run **Factor Amount Analyst** Lab Total/NA Prep 5035 4.97 g 5 mL 23398 04/12/22 14:39 MR XEN MID Total/NA 8021B 5 mL 5 mL 23364 04/13/22 03:47 MR XEN MID Analysis 1 Total/NA Total BTEX 04/13/22 10:19 AJ Analysis 1 23448 XEN MID Total/NA 8015 NM 23439 04/13/22 09:50 AJ XEN MID Analysis 1 Total/NA Prep 8015NM Prep 10.02 g 10 mL 23410 04/12/22 16:53 DM XEN MID

Client Sample ID: BH-15 Lab Sample ID: 890-2187-3 Date Collected: 04/12/22 09:00 Matrix: Solid

4.99 g

1

1

23357

23421

23424

50 mL

04/13/22 02:28 AJ

04/12/22 17:07 CH

04/13/22 04:35 CH

Date Received: 04/12/22 13:10

Analysis

Analysis

Leach

8015B NM

DI Leach

300.0

Total/NA

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 04:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23448	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23439	04/13/22 09:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/13/22 02:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 04:44	CH	XEN MID

Client Sample ID: BH-16 Lab Sample ID: 890-2187-4 Date Collected: 04/12/22 09:30 Matrix: Solid

Date Received: 04/12/22 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 04:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23448	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

XEN MID

XEN MID

XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-2187-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: BH-16

Date Collected: 04/12/22 09:30 Date Received: 04/12/22 13:10

Lab Sample ID: 890-2187-4

Matrix: Solid

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	8015 NM		1			23439	04/13/22 09:50	AJ	XEN MID
	Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
	Total/NA	Analysis	8015B NM		1			23357	04/13/22 03:09	AJ	XEN MID
	Soluble	Leach	DI Leach			5.02 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
l	Soluble	Analysis	300.0		1			23424	04/13/22 05:11	CH	XEN MID

Client Sample ID: BH-17 Lab Sample ID: 890-2187-5 Date Collected: 04/12/22 10:00 **Matrix: Solid**

Date Received: 04/12/22 13:10

Batch Dil Initial Final **Batch** Prepared Batch **Prep Type** Method Amount Amount Number Type Run **Factor** or Analyzed **Analyst** Lab Total/NA 5035 23398 04/12/22 14:39 XEN MID Prep 4.99 g 5 mL MR Total/NA Analysis 8021B 1 5 mL 5 mL 23364 04/13/22 04:48 MR XEN MID Total/NA **Total BTEX** 04/13/22 10:19 AJ Analysis 1 23448 XEN MID Total/NA 8015 NM 23439 04/13/22 09:50 AJ XEN MID Analysis Total/NA Prep 8015NM Prep 10.01 g 23410 04/12/22 16:53 DM XEN MID 10 mL Total/NA 8015B NM 23357 04/13/22 03:30 AJ XEN MID Analysis Soluble 23421 04/12/22 17:07 CH XEN MID Leach DI Leach 5 g 50 mL Analysis 300.0 23424 04/13/22 05:21 CH XEN MID Soluble 1

Client Sample ID: 8 BH-1 Lab Sample ID: 890-2187-6 Date Collected: 04/12/22 12:00 Matrix: Solid

Date Received: 04/12/22 13:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 05:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23448	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23439	04/13/22 09:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/13/22 03:50	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 05:48	CH	XEN MID

Client Sample ID: 8 SW-1 Lab Sample ID: 890-2187-7 Date Collected: 04/12/22 12:05 **Matrix: Solid**

Date Received: 04/12/22 13:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 05:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23448	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23439	04/13/22 09:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	23410 23357	04/12/22 16:53 04/13/22 04:11	DM AJ	XEN MID XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-2187-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: 8 SW-1 Lab Sample ID: 890-2187-7 Date Collected: 04/12/22 12:05

Matrix: Solid

Date Received: 04/12/22 13:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 05:57	CH	XEN MID

Client Sample ID: 8 SW-2 Lab Sample ID: 890-2187-8

Date Collected: 04/12/22 12:10 Matrix: Solid

Date Received: 04/12/22 13:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 05:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23448	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23439	04/13/22 09:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23410	04/12/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/13/22 04:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23421	04/12/22 17:07	CH	XEN MID
Soluble	Analysis	300.0		1			23424	04/13/22 06:07	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Job ID: 890-2187-1

SDG: 11224665

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analyte	e are included in this reno	art but the laboratory is r	ant nortified by the governing outbarity	This list may include analytes for u
the agency does not	offer certification.	•	not certified by the governing authority.	This list may include analytes for w
	•	Matrix	Analyte	This list may include analytes for w
the agency does not	offer certification.	•	, , ,	This list may include analytes for w

Eurofins Carlsbad

2

3

6

10

11

13

Method Summary

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-2187-1

SDG: 11224665

tory	

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

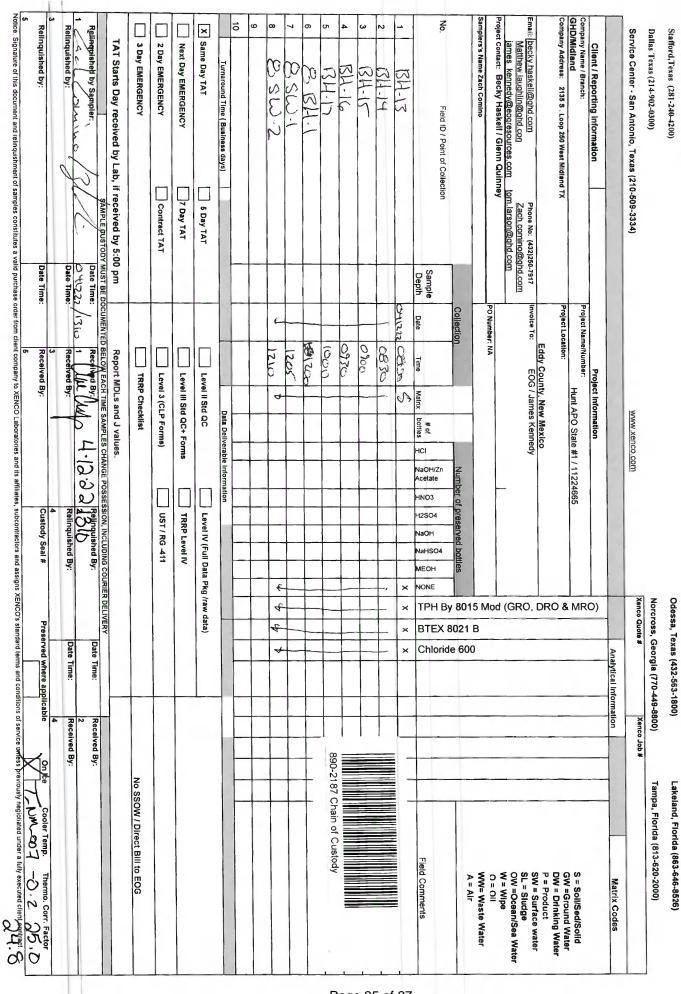
Sample Summary

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-2187-1

SDG: 11224665

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2187-1	BH-13	Solid	04/12/22 08:00	04/12/22 13:10	13
890-2187-2	BH-14	Solid	04/12/22 08:30	04/12/22 13:10	14
890-2187-3	BH-15	Solid	04/12/22 09:00	04/12/22 13:10	15
890-2187-4	BH-16	Solid	04/12/22 09:30	04/12/22 13:10	16
890-2187-5	BH-17	Solid	04/12/22 10:00	04/12/22 13:10	17
890-2187-6	8 BH-1	Solid	04/12/22 12:00	04/12/22 13:10	17
890-2187-7	8 SW-1	Solid	04/12/22 12:05	04/12/22 13:10	1
890-2187-8	8 SW-2	Solid	04/12/22 12:10	04/12/22 13:10	2

Setting the Standard since 1990



Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 890-2187-1 SDG Number: 11224665

Login Number: 2187 **List Source: Eurofins Carlsbad**

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2187-1 SDG Number: 11224665

Login Number: 2187
List Source: Eurofins Midland
List Number: 2
List Creation: 04/12/22 06:13 PM

Creator: Carlisle, Spring

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

1

4

5

7

4 4

12



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2189-1

Laboratory Sample Delivery Group: 11224665

Client Project/Site: Hunt APO State #1

For:

GHD Services Inc. 2135 South Loop 250 West Midland, Texas 79703

Attn: Becky Haskell

MAMER

Authorized for release by: 4/15/2022 10:23:35 PM Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Designee for

Debbie Simmons, Project Manager (832)986-6768

Debbie.Simmons@et.eurofinsus.com

Review your project results through

·····LINKS ·······

Total Access

Have a Question?



www.eurofinsus.com/Env

Visit us at:

Released to Imaging: 6/30/2023 10:36:43 AM

Results relate only to the items tested and the sample(s) as received by the laboratory.

_

5

7

8

3

11

12

14

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

Laboratory Job ID: 890-2189-1

SDG: 11224665

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	6
QC Sample Results	7
QC Association Summary	10
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

2

3

4

6

8

10

12

13

Definitions/Glossary

Client: GHD Services Inc.

Job ID: 890-2189-1

Project/Site: Hunt APO State #1

SDG: 11224665

Qualifiers

GC VOA Qualifier

 Qualifier
 Qualifier Description

 *+
 LCS and/or LCSD is outside acceptance limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 B
 Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

3

-4

6

7

_

10

12

Case Narrative

Client: GHD Services Inc.

Job ID: 890-2189-1

Project/Site: Hunt APO State #1

SDG: 11224665

Job ID: 890-2189-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2189-1

Receipt

The sample was received on 4/14/2022 12:35 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.3°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-23550 and analytical batch 880-23537 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-23575 and analytical batch 880-23584 contained AffectedAnalytes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

1

9

5

6

7

_

10

13

| | 4

Client Sample Results

Client: GHD Services Inc. Job ID: 890-2189-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: BH-4A

Date Received: 04/14/22 12:35

Lab Sample ID: 890-2189-1 Date Collected: 04/14/22 08:30 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *+	0.00201	0.000387	mg/Kg		04/14/22 15:16	04/15/22 18:27	1
Toluene	<0.000458	U *+	0.00201	0.000458	mg/Kg		04/14/22 15:16	04/15/22 18:27	1
Ethylbenzene	< 0.000567	U	0.00201	0.000567	mg/Kg		04/14/22 15:16	04/15/22 18:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/14/22 15:16	04/15/22 18:27	1
o-Xylene	< 0.000345	U	0.00201	0.000345	mg/Kg		04/14/22 15:16	04/15/22 18:27	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/14/22 15:16	04/15/22 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/14/22 15:16	04/15/22 18:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/14/22 15:16	04/15/22 18:27	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			04/15/22 19:23	1
Analyte	Organics (DR) Result		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier	RL 49.9	MDL 15.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/15/22 15:35	Dil Fac
Total TPH	Result 43.9	Qualifier J				<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Rang	Result 43.9 ge Organics (Di	Qualifier J RO) (GC)	49.9	15.0	mg/Kg		· · ·	04/15/22 15:35	1
Total TPH Method: 8015B NM - Diesel Rang Analyte	Result 43.9 ge Organics (Dige Result	Qualifier J RO) (GC) Qualifier	49.9	15.0 MDL	mg/Kg	<u>D</u>	Prepared	04/15/22 15:35 Analyzed	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 43.9 ge Organics (Di	Qualifier J RO) (GC) Qualifier	49.9	15.0	mg/Kg		· · ·	04/15/22 15:35	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte	Result 43.9 ge Organics (Dige Result	Qualifier J RO) (GC) Qualifier J	49.9	15.0 MDL 15.0	mg/Kg		Prepared	04/15/22 15:35 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 43.9 ge Organics (Di Result 23.5	Qualifier J RO) (GC) Qualifier J	49.9 RL 49.9	15.0 MDL 15.0	mg/Kg Unit mg/Kg		Prepared 04/15/22 08:43	04/15/22 15:35 Analyzed 04/15/22 12:30	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 43.9 ge Organics (Di Result 23.5	Qualifier J RO) (GC) Qualifier J JB	49.9 RL 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg		Prepared 04/15/22 08:43	04/15/22 15:35 Analyzed 04/15/22 12:30	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 43.9 ge Organics (Di Result 23.5 20.4	Qualifier J RO) (GC) Qualifier J J B	49.9 RL 49.9 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/15/22 08:43 04/15/22 08:43	04/15/22 15:35 Analyzed 04/15/22 12:30 04/15/22 12:30	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 43.9 ge Organics (Di Result 23.5 20.4 <15.0	Qualifier J RO) (GC) Qualifier J J B	49.9 RL 49.9 49.9 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/15/22 08:43 04/15/22 08:43	04/15/22 15:35 Analyzed 04/15/22 12:30 04/15/22 12:30	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 43.9 ge Organics (Di Result 23.5 20.4 <15.0 %Recovery	Qualifier J RO) (GC) Qualifier J J B	49.9 RL 49.9 49.9 49.9 Limits	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/15/22 08:43 04/15/22 08:43 04/15/22 08:43 Prepared	04/15/22 15:35 Analyzed 04/15/22 12:30 04/15/22 12:30 04/15/22 12:30 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 43.9 ge Organics (D) Result 23.5 20.4 <15.0 %Recovery 74 83	Qualifier J RO) (GC) Qualifier J J B U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/15/22 08:43 04/15/22 08:43 04/15/22 08:43 Prepared 04/15/22 08:43	04/15/22 15:35 Analyzed 04/15/22 12:30 04/15/22 12:30 Analyzed 04/15/22 12:30	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier J RO) (GC) Qualifier J J B U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 04/15/22 08:43 04/15/22 08:43 04/15/22 08:43 Prepared 04/15/22 08:43	04/15/22 15:35 Analyzed 04/15/22 12:30 04/15/22 12:30 Analyzed 04/15/22 12:30	Dil Fac 1

Surrogate Summary

Client: GHD Services Inc.

Job ID: 890-2189-1

Project/Site: Hunt APO State #1

SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2189-1	BH-4A	100	107	
890-2189-1 MS	BH-4A	97	106	
890-2189-1 MSD	BH-4A	100	107	
LCS 880-23550/1-A	Lab Control Sample	97	109	
LCSD 880-23550/2-A	Lab Control Sample Dup	98	108	
MB 880-23550/5-A	Method Blank	96	103	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate
Lab Cample ID	Client Commis ID	1CO1 (70-130)	OTPH1 (70-130)	
Lab Sample ID	Client Sample ID		<u> </u>	
890-2189-1	BH-4A	74	83	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Lin
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-23575/2-A	Lab Control Sample	113	132 S1+	
LCSD 880-23575/3-A	Lab Control Sample Dup	100	118	
MB 880-23575/1-A	Method Blank	80	96	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

QC Sample Results

Client: GHD Services Inc. Job ID: 890-2189-1 Project/Site: Hunt APO State #1 SDG: 11224665

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23550/5-A

Analysis Batch: 23537

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23550

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/14/22 15:16	04/15/22 17:58	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/14/22 15:16	04/15/22 17:58	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/14/22 15:16	04/15/22 17:58	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/14/22 15:16	04/15/22 17:58	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/14/22 15:16	04/15/22 17:58	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/14/22 15:16	04/15/22 17:58	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	04/14/22 15	16 04/15/22 17:58	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/14/22 15	16 04/15/22 17:58	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-23550/1-A Matrix: Solid

Analysis Batch: 23537

Prep Type: Total/NA

Prep Batch: 23550

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1372	*+	mg/Kg		137	70 - 130	
Toluene	0.100	0.1329	*+	mg/Kg		133	70 - 130	
Ethylbenzene	0.100	0.1215		mg/Kg		121	70 - 130	
m-Xylene & p-Xylene	0.200	0.2467		mg/Kg		123	70 - 130	
o-Xylene	0.100	0.1153		mg/Kg		115	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-23550/2-A

Matrix: Solid

Analysis Batch: 23537

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 23550

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1435 *+ mg/Kg 144 70 - 130 35 Toluene 0.100 0.1405 *+ mg/Kg 140 70 - 130 35 Ethylbenzene 0.100 0.1275 mg/Kg 128 70 - 130 5 35 0.200 m-Xylene & p-Xylene 0.2607 mg/Kg 130 70 - 130 35 0.100 0.1218 122 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-2189-1 MS

Matrix: Solid

Analysis Batch: 23537

Client Sample ID: BH-4A Prep Type: Total/NA

Prep Batch: 23550

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.000387	U *+	0.0996	0.1084		mg/Kg	_	109	70 - 130	
Toluene	<0.000458	U *+	0.0996	0.1043		mg/Kg		105	70 - 130	

QC Sample Results

Client: GHD Services Inc. Job ID: 890-2189-1 SDG: 11224665 Project/Site: Hunt APO State #1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2189-1 MS

Analysis Batch: 23537

Client Sample ID: BH-4A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 23550

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.000567	U	0.0996	0.09248		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1888		mg/Kg		95	70 - 130	
o-Xylene	<0.000345	U	0.0996	0.08964		mg/Kg		90	70 - 130	

MS MS

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-2189-1 MSD

Client Sample ID: BH-4A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 23550 **Analysis Batch: 23537**

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000387	U *+	0.0994	0.1172		mg/Kg		118	70 - 130	8	35
Toluene	<0.000458	U *+	0.0994	0.1174		mg/Kg		118	70 - 130	12	35
Ethylbenzene	< 0.000567	U	0.0994	0.1046		mg/Kg		105	70 - 130	12	35
m-Xylene & p-Xylene	<0.00101	U	0.199	0.2148		mg/Kg		108	70 - 130	13	35
o-Xylene	< 0.000345	U	0.0994	0.1009		mg/Kg		102	70 - 130	12	35

MSD MSD

Surrogate	%Recovery Qualit	ier Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-23575/1-A

Matrix: Solid

Analysis Batch: 23584

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 23575 мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		04/15/22 08:43	04/15/22 10:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	20.95	J	50.0	15.0	mg/Kg		04/15/22 08:43	04/15/22 10:24	1
C10-C28)									
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/15/22 08:43	04/15/22 10:24	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	04/15/22 08:	04/15/22 10:24	1
o-Terphenyl	96		70 - 130	04/15/22 08:	13 04/15/22 10:24	1

Lab Sample ID: LCS 880-23575/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 23584							Prep E	Batch: 23575
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	977.3	-	mg/Kg		98	70 - 130	 -
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1032		mg/Kg		103	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA

Job ID: 890-2189-1

SDG: 11224665

Client: GHD Services Inc. Project/Site: Hunt APO State #1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-23575/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 23584 Prep Batch: 23575

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 113 70 - 130 o-Terphenyl 132 S1+ 70 - 130

Lab Sample ID: LCSD 880-23575/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 23584 Prep Batch: 23575

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1072 107 70 - 1309 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 910.6 91 mg/Kg 70 - 13013 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 100 70 - 130 1-Chlorooctane 118 70 - 130 o-Terphenyl

мв мв

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23553/1-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 23588

Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Chloride 5.00 <0.858 U 0.858 mg/Kg 04/14/22 21:22

Lab Sample ID: LCS 880-23553/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23588

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 248.2 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-23553/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23588

Released to Imaging: 6/30/2023 10:36:43 AM

Spike LCSD LCSD %Rec Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 247.7 mg/Kg 99 90 - 110 20

Eurofins Carlsbad

RPD

Client: GHD Services Inc. Job ID: 890-2189-1 Project/Site: Hunt APO State #1 SDG: 11224665

GC VOA

Analysis Batch: 23537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2189-1	BH-4A	Total/NA	Solid	8021B	23550
MB 880-23550/5-A	Method Blank	Total/NA	Solid	8021B	23550
LCS 880-23550/1-A	Lab Control Sample	Total/NA	Solid	8021B	23550
LCSD 880-23550/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23550
890-2189-1 MS	BH-4A	Total/NA	Solid	8021B	23550
890-2189-1 MSD	BH-4A	Total/NA	Solid	8021B	23550

Prep Batch: 23550

Lab Sample ID 890-2189-1	Client Sample ID BH-4A	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batc
MB 880-23550/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23550/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23550/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2189-1 MS	BH-4A	Total/NA	Solid	5035	
890-2189-1 MSD	BH-4A	Total/NA	Solid	5035	

Analysis Batch: 23673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2189-1	BH-4A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2189-1	BH-4A	Total/NA	Solid	8015NM Prep	
MB 880-23575/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23575/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23575/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2189-1	BH-4A	Total/NA	Solid	8015B NM	23575
MB 880-23575/1-A	Method Blank	Total/NA	Solid	8015B NM	23575
LCS 880-23575/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23575
LCSD 880-23575/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23575

Analysis Batch: 23658

					
Lab Sample ID	Client Sample ID	Prep Type		Method	Prep Batch
890-2189-1	BH-4A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2189-1 MB 880-23553/1-A	BH-4A Method Blank	Soluble Soluble	Solid Solid	DI Leach DI Leach	
LCS 880-23553/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23553/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 23588

Released to Imaging: 6/30/2023 10:36:43 AM

_					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2189-1	BH-4A	Soluble	Solid	300.0	23553

QC Association Summary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

HPLC/IC (Continued)

Analysis Batch: 23588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23553/1-A	Method Blank	Soluble	Solid	300.0	23553
LCS 880-23553/2-A	Lab Control Sample	Soluble	Solid	300.0	23553
LCSD 880-23553/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23553

1

5

6

8

10

11

13

14

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-2189-1 Project/Site: Hunt APO State #1 SDG: 11224665

Client Sample ID: BH-4A

Date Received: 04/14/22 12:35

Lab Sample ID: 890-2189-1 Date Collected: 04/14/22 08:30 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23550	04/14/22 15:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23537	04/15/22 18:27	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			23673	04/15/22 19:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23658	04/15/22 15:35	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23575	04/15/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23584	04/15/22 12:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23553	04/15/22 12:00	SC	XEN MID
Soluble	Analysis	300.0		1			23588	04/15/22 12:20	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: GHD Services Inc.

Project/Site: Hunt APO State #1

SDG: 11224665

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report by	it the laboratory is not cortifi	iad butba gavarning autharity. This list ma		
the agency does not of	• •	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for v	
,	• •	Matrix	Analyte	ay include analytes for v	
the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

4

6

8

10

11

13

14

Method Summary

Client: GHD Services Inc.

Job ID: 890-2189-1

Project/Site: Hunt APO State #1

SDG: 11224665

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

3

4

-

9

10

12

13

14

Sample Summary

Client: GHD Services Inc. Project/Site: Hunt APO State #1 Job ID: 890-2189-1

SDG: 11224665

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2189-1	BH-4A	Solid	04/14/22 08:30	04/14/22 12:35

Stafford, Texas (281-240-4200) Setting the Standard since 1990

CHAIN OF CUSTODY

Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526)

volice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless Samplers's Name Zach Comino Company Name / Branch: GHD/Midland 8 mail: becky.haskel@ghd.com 5 james kennedy@eogresources.com tor roject Contact: Becky Haskell / Glenn Quinney X Same Day TAT Relinquished by Sampler 3 Day EMERGENCY Relinquished by: mpany Address: Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) TAT Starts Day received by Lab, if received by 5:00 pm 2 Day EMERGENCY Next Day EMERGENCY Client / Reporting Information Matthew.laughlin@ghd.con AH- HS round Time (Business days) 2135 S. Loop 250 West Midland TX Field ID / Point of Collection 7 Day TAT tom.larson@ghd.com Contract TAT SAMPLE CUSTODY MUST BE DOCUMENTED
Date Time: Phone No: (432)250-7917 Zach.comino@ghd.com **6 Day TAT** Date Time: Date Time Sample Depth C41922 Invoice To: Project Location: Dale Eddy County, New Mexico EOG / James Kennedy BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Received By: 0880 Received By: Report MDLs and J values. TRRP Checklist Level III Std QC+ Forms Project Information Level 3 (CLP Forms) Level II Std QC Hunt APO State #1 / 11224665 Ca **Data Deliverable Information** www.xenco.com # of HCI 3CC. HI NaOH/Zn NO3 Relinguished By: Custody Seal # Relinquished By: 12\$04 TRRP Level IV UST / RG -411 Level IV (Full Data Pkg /raw data) laHSO4 ЛЕОН Norcross, Georgia (770-449-8800) TPH By 8015 Mod (GRO, DRO & MRO) BTEX 8021 B Date Time: × Chloride 600 Analytical Information Time: where applicable 890-2189 Received By: Received By: Xenco Job # Chain of Custody previously negiotiated under a fully executed client cankact. No SSOW / Direct Bill to EOG Tampa, Florida (813-620-2000) してるととし Cooler Temp. Field Comments 2.0-2 S = Soll/Sed/Solid GW =Ground Water DW = Drinking Water WW= Waste Water 0=0 W = Wipe SL = Sludge OW =Ocean/Sea Water SW = Surface water P = Product Thermo. Corr. Factor Matrix Codes 23.5

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2189-1

SDG Number: 11224665

Login Number: 2189 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

J 303

2

3

4

5

7

9

11

12

14

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2189-1 SDG Number: 11224665

Login Number: 2189

List Source: Eurofins Midland
List Number: 2

List Creation: 04/15/22 10:59 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

2

4

_

7

_

44

14

14

<6mm (1/4").



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

November 04, 2022

Nate Reece GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086

FAX:

RE: Hunt APO State 1 OrderNo.: 2210D58

Dear Nate Reece:

Hall Environmental Analysis Laboratory received 33 sample(s) on 10/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** BH13

Project: Hunt APO State 1 Collection Date: 10/25/2022 12:00:00 PM Lab ID: 2210D58-001 Matrix: SOIL Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	520	59	mg/Kg	20	11/1/2022 8:41:12 PM	71218
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 10:58:32 PM	1 71171
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 10:58:32 PM	1 71171
Surr: DNOP	98.4	21-129	%Rec	1	10/31/2022 10:58:32 PM	1 71171
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/29/2022 2:05:00 PM	71125
Surr: BFB	93.4	37.7-212	%Rec	1	10/29/2022 2:05:00 PM	71125
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.023	mg/Kg	1	10/29/2022 2:05:00 PM	71125
Toluene	ND	0.046	mg/Kg	1	10/29/2022 2:05:00 PM	71125
Ethylbenzene	ND	0.046	mg/Kg	1	10/29/2022 2:05:00 PM	71125
Xylenes, Total	ND	0.091	mg/Kg	1	10/29/2022 2:05:00 PM	71125
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	10/29/2022 2:05:00 PM	71125

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 1 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH14

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:05:00 PM

 Lab ID:
 2210D58-002
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	500	60	mg/Kg	20	11/1/2022 8:53:36 PM	71218
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 11:09:05 PM	1 71171
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 11:09:05 PM	1 71171
Surr: DNOP	99.8	21-129	%Rec	1	10/31/2022 11:09:05 PM	1 71171
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/29/2022 2:25:00 PM	71125
Surr: BFB	101	37.7-212	%Rec	1	10/29/2022 2:25:00 PM	71125
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	10/29/2022 2:25:00 PM	71125
Toluene	ND	0.049	mg/Kg	1	10/29/2022 2:25:00 PM	71125
Ethylbenzene	ND	0.049	mg/Kg	1	10/29/2022 2:25:00 PM	71125
Xylenes, Total	ND	0.098	mg/Kg	1	10/29/2022 2:25:00 PM	71125
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	10/29/2022 2:25:00 PM	71125

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH15

Project: Hunt APO State 1 Collection Date: 10/25/2022 12:10:00 PM Lab ID: 2210D58-003 Matrix: SOIL Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	670	60	mg/Kg	20	11/1/2022 9:06:00 PM	71218
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 6:53:50 PM	71174
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/31/2022 6:53:50 PM	71174
Surr: DNOP	98.2	21-129	%Rec	1	10/31/2022 6:53:50 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/29/2022 3:04:00 PM	71125
Surr: BFB	102	37.7-212	%Rec	1	10/29/2022 3:04:00 PM	71125
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.023	mg/Kg	1	10/29/2022 3:04:00 PM	71125
Toluene	ND	0.047	mg/Kg	1	10/29/2022 3:04:00 PM	71125
Ethylbenzene	ND	0.047	mg/Kg	1	10/29/2022 3:04:00 PM	71125
Xylenes, Total	ND	0.093	mg/Kg	1	10/29/2022 3:04:00 PM	71125
Surr: 4-Bromofluorobenzene	120	70-130	%Rec	1	10/29/2022 3:04:00 PM	71125

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 3 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH16

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:15:00 PM

 Lab ID:
 2210D58-004
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	NAI
Chloride	680	60	mg/Kg	20	11/1/2022 9:18:25 PM	71218
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 7:04:37 PM	71174
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/31/2022 7:04:37 PM	71174
Surr: DNOP	98.9	21-129	%Rec	1	10/31/2022 7:04:37 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/29/2022 3:24:00 PM	71125
Surr: BFB	102	37.7-212	%Rec	1	10/29/2022 3:24:00 PM	71125
EPA METHOD 8021B: VOLATILES					Analyst:	CCM
Benzene	ND	0.024	mg/Kg	1	10/29/2022 3:24:00 PM	71125
Toluene	ND	0.048	mg/Kg	1	10/29/2022 3:24:00 PM	71125
Ethylbenzene	ND	0.048	mg/Kg	1	10/29/2022 3:24:00 PM	71125
Xylenes, Total	ND	0.097	mg/Kg	1	10/29/2022 3:24:00 PM	71125
Surr: 4-Bromofluorobenzene	119	70-130	%Rec	1	10/29/2022 3:24:00 PM	71125

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
Page 4 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH17

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:20:00 PM

 Lab ID:
 2210D58-005
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: N A	ΑI
Chloride	190	60	mg/Kg	20	11/1/2022 9:30:50 PM 712	218
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DG	GH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 7:15:24 PM 71	174
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 7:15:24 PM 71	174
Surr: DNOP	95.8	21-129	%Rec	1	10/31/2022 7:15:24 PM 71	174
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CC	CM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/29/2022 3:44:00 PM 71	125
Surr: BFB	104	37.7-212	%Rec	1	10/29/2022 3:44:00 PM 71	125
EPA METHOD 8021B: VOLATILES					Analyst: CC	СМ
Benzene	ND	0.024	mg/Kg	1	10/29/2022 3:44:00 PM 71	125
Toluene	ND	0.049	mg/Kg	1	10/29/2022 3:44:00 PM 71	125
Ethylbenzene	ND	0.049	mg/Kg	1	10/29/2022 3:44:00 PM 71	125
Xylenes, Total	ND	0.097	mg/Kg	1	10/29/2022 3:44:00 PM 71	125
Surr: 4-Bromofluorobenzene	121	70-130	%Rec	1	10/29/2022 3:44:00 PM 71	125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH18

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:25:00 PM

 Lab ID:
 2210D58-006
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: N	ΑI
Chloride	120	60	mg/Kg	20	11/1/2022 10:08:04 PM 71	1218
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DC	GH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 7:26:10 PM 71	1174
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2022 7:26:10 PM 71	1174
Surr: DNOP	96.4	21-129	%Rec	1	10/31/2022 7:26:10 PM 71	1174
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CO	СМ
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/29/2022 4:04:00 PM 71	1125
Surr: BFB	101	37.7-212	%Rec	1	10/29/2022 4:04:00 PM 71	1125
EPA METHOD 8021B: VOLATILES					Analyst: CO	СМ
Benzene	ND	0.024	mg/Kg	1	10/29/2022 4:04:00 PM 71	1125
Toluene	ND	0.047	mg/Kg	1	10/29/2022 4:04:00 PM 71	1125
Ethylbenzene	ND	0.047	mg/Kg	1	10/29/2022 4:04:00 PM 71	1125
Xylenes, Total	ND	0.095	mg/Kg	1	10/29/2022 4:04:00 PM 71	1125
Surr: 4-Bromofluorobenzene	119	70-130	%Rec	1	10/29/2022 4:04:00 PM 71	1125

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH19

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:30:00 PM

 Lab ID:
 2210D58-007
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Bat	tch
EPA METHOD 300.0: ANIONS					Analyst: NA	NI .
Chloride	60	60	mg/Kg	20	11/1/2022 10:20:29 PM 712	218
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DG	ЭΗ
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 7:36:54 PM 711	174
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/31/2022 7:36:54 PM 711	174
Surr: DNOP	95.7	21-129	%Rec	1	10/31/2022 7:36:54 PM 711	174
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CC	M
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/29/2022 4:23:00 PM 711	125
Surr: BFB	104	37.7-212	%Rec	1	10/29/2022 4:23:00 PM 711	125
EPA METHOD 8021B: VOLATILES					Analyst: CC	M
Benzene	ND	0.024	mg/Kg	1	10/29/2022 4:23:00 PM 711	125
Toluene	ND	0.048	mg/Kg	1	10/29/2022 4:23:00 PM 711	125
Ethylbenzene	ND	0.048	mg/Kg	1	10/29/2022 4:23:00 PM 711	125
Xylenes, Total	ND	0.097	mg/Kg	1	10/29/2022 4:23:00 PM 711	125
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	10/29/2022 4:23:00 PM 711	125

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH20

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:35:00 PM

 Lab ID:
 2210D58-008
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Bato	ch
EPA METHOD 300.0: ANIONS					Analyst: NAI	J
Chloride	480	60	mg/Kg	20	11/1/2022 10:32:53 PM 7121	18
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGI	Н
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 7:58:16 PM 7117	74
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 7:58:16 PM 7117	74
Surr: DNOP	94.5	21-129	%Rec	1	10/31/2022 7:58:16 PM 7117	74
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCN	M
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/29/2022 4:43:00 PM 7112	25
Surr: BFB	94.7	37.7-212	%Rec	1	10/29/2022 4:43:00 PM 7112	25
EPA METHOD 8021B: VOLATILES					Analyst: CCN	M
Benzene	ND	0.023	mg/Kg	1	10/29/2022 4:43:00 PM 7112	25
Toluene	ND	0.046	mg/Kg	1	10/29/2022 4:43:00 PM 7112	25
Ethylbenzene	ND	0.046	mg/Kg	1	10/29/2022 4:43:00 PM 7112	25
Xylenes, Total	ND	0.091	mg/Kg	1	10/29/2022 4:43:00 PM 7112	25
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	10/29/2022 4:43:00 PM 7112	25

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH21

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:40:00 PM

 Lab ID:
 2210D58-009
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: N	Al
Chloride	180	60	mg/Kg	20	11/1/2022 10:45:17 PM 71	1218
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: Do	GH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 8:08:59 PM 71	1174
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/31/2022 8:08:59 PM 71	1174
Surr: DNOP	97.0	21-129	%Rec	1	10/31/2022 8:08:59 PM 71	1174
EPA METHOD 8015D: GASOLINE RANGE					Analyst: Co	СМ
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/29/2022 5:03:00 PM 71	1125
Surr: BFB	98.1	37.7-212	%Rec	1	10/29/2022 5:03:00 PM 71	1125
EPA METHOD 8021B: VOLATILES					Analyst: Co	СМ
Benzene	ND	0.025	mg/Kg	1	10/29/2022 5:03:00 PM 71	1125
Toluene	ND	0.050	mg/Kg	1	10/29/2022 5:03:00 PM 71	1125
Ethylbenzene	ND	0.050	mg/Kg	1	10/29/2022 5:03:00 PM 71	1125
Xylenes, Total	ND	0.10	mg/Kg	1	10/29/2022 5:03:00 PM 71	1125
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	10/29/2022 5:03:00 PM 71	1125

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH22

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:45:00 PM

 Lab ID:
 2210D58-010
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	Batch
EPA METHOD 300.0: ANIONS					Analyst: N	IAI
Chloride	72	60	mg/Kg	20	11/1/2022 11:22:30 PM 7	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: D	OGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 8:19:57 PM 7	71174
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 8:19:57 PM 7	71174
Surr: DNOP	95.8	21-129	%Rec	1	10/31/2022 8:19:57 PM 7	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst: C	CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/29/2022 5:22:00 PM 7	71125
Surr: BFB	98.5	37.7-212	%Rec	1	10/29/2022 5:22:00 PM 7	71125
EPA METHOD 8021B: VOLATILES					Analyst: C	CCM
Benzene	ND	0.023	mg/Kg	1	10/29/2022 5:22:00 PM 7	71125
Toluene	ND	0.047	mg/Kg	1	10/29/2022 5:22:00 PM 7	71125
Ethylbenzene	ND	0.047	mg/Kg	1	10/29/2022 5:22:00 PM 7	71125
Xylenes, Total	ND	0.093	mg/Kg	1	10/29/2022 5:22:00 PM 7	71125
Surr: 4-Bromofluorobenzene	118	70-130	%Rec	1	10/29/2022 5:22:00 PM 7	71125

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH23

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:50:00 PM

 Lab ID:
 2210D58-011
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	120	59	mg/Kg	20	11/1/2022 11:59:42 PM	71220
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 8:30:37 PM	71174
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/31/2022 8:30:37 PM	71174
Surr: DNOP	92.7	21-129	%Rec	1	10/31/2022 8:30:37 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/29/2022 5:42:00 PM	71125
Surr: BFB	98.2	37.7-212	%Rec	1	10/29/2022 5:42:00 PM	71125
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	10/29/2022 5:42:00 PM	71125
Toluene	ND	0.050	mg/Kg	1	10/29/2022 5:42:00 PM	71125
Ethylbenzene	ND	0.050	mg/Kg	1	10/29/2022 5:42:00 PM	71125
Xylenes, Total	ND	0.10	mg/Kg	1	10/29/2022 5:42:00 PM	71125
Surr: 4-Bromofluorobenzene	119	70-130	%Rec	1	10/29/2022 5:42:00 PM	71125

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH24

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 12:55:00 PM

 Lab ID:
 2210D58-012
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	Batch
EPA METHOD 300.0: ANIONS					Analyst: N	IAV
Chloride	690	60	mg/Kg	20	11/2/2022 1:01:43 AM 7	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	OGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 8:41:15 PM 7	71174
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2022 8:41:15 PM 7	71174
Surr: DNOP	99.4	21-129	%Rec	1	10/31/2022 8:41:15 PM 7	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst: C	ССМ
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/29/2022 6:02:00 PM 7	71125
Surr: BFB	100	37.7-212	%Rec	1	10/29/2022 6:02:00 PM 7	71125
EPA METHOD 8021B: VOLATILES					Analyst: C	ССМ
Benzene	ND	0.025	mg/Kg	1	10/29/2022 6:02:00 PM 7	71125
Toluene	ND	0.049	mg/Kg	1	10/29/2022 6:02:00 PM 7	71125
Ethylbenzene	ND	0.049	mg/Kg	1	10/29/2022 6:02:00 PM 7	71125
Xylenes, Total	ND	0.098	mg/Kg	1	10/29/2022 6:02:00 PM 7	71125
Surr: 4-Bromofluorobenzene	119	70-130	%Rec	1	10/29/2022 6:02:00 PM 7	71125

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH25

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:00:00 PM

 Lab ID:
 2210D58-013
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	530	60	mg/Kg	20	11/2/2022 1:14:07 AM 7122	20
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DG F	Н
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 8:51:52 PM 7117	74
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 8:51:52 PM 7117	74
Surr: DNOP	99.1	21-129	%Rec	1	10/31/2022 8:51:52 PM 7117	74
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSE	3
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/31/2022 12:31:15 PM 7113	30
Surr: BFB	91.0	37.7-212	%Rec	1	10/31/2022 12:31:15 PM 7113	30
EPA METHOD 8021B: VOLATILES					Analyst: NSE	3
Benzene	ND	0.023	mg/Kg	1	10/31/2022 12:31:15 PM 7113	30
Toluene	ND	0.047	mg/Kg	1	10/31/2022 12:31:15 PM 7113	30
Ethylbenzene	ND	0.047	mg/Kg	1	10/31/2022 12:31:15 PM 7113	30
Xylenes, Total	ND	0.093	mg/Kg	1	10/31/2022 12:31:15 PM 7113	30
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	10/31/2022 12:31:15 PM 7113	30

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH1

Project: Hunt APO State 1 **Collection Date:** 10/25/2022 1:05:00 PM Lab ID: 2210D58-014 Matrix: SOIL Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	410	60	mg/Kg	20	11/2/2022 1:26:32 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 9:02:28 PM	71174
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2022 9:02:28 PM	71174
Surr: DNOP	98.5	21-129	%Rec	1	10/31/2022 9:02:28 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2022 2:52:41 PM	71130
Surr: BFB	94.1	37.7-212	%Rec	1	10/31/2022 2:52:41 PM	71130
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2022 2:52:41 PM	71130
Toluene	ND	0.049	mg/Kg	1	10/31/2022 2:52:41 PM	71130
Ethylbenzene	ND	0.049	mg/Kg	1	10/31/2022 2:52:41 PM	71130
Xylenes, Total	ND	0.099	mg/Kg	1	10/31/2022 2:52:41 PM	71130
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	10/31/2022 2:52:41 PM	71130

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 14 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH2

Project: Hunt APO State 1 **Collection Date:** 10/25/2022 1:10:00 PM Lab ID: 2210D58-015 Matrix: SOIL Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	640	60	mg/Kg	20	11/2/2022 1:38:56 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 9:13:03 PM	71174
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2022 9:13:03 PM	71174
Surr: DNOP	98.4	21-129	%Rec	1	10/31/2022 9:13:03 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/31/2022 4:03:22 PM	71130
Surr: BFB	91.6	37.7-212	%Rec	1	10/31/2022 4:03:22 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	10/31/2022 4:03:22 PM	71130
Toluene	ND	0.047	mg/Kg	1	10/31/2022 4:03:22 PM	71130
Ethylbenzene	ND	0.047	mg/Kg	1	10/31/2022 4:03:22 PM	71130
Xylenes, Total	ND	0.094	mg/Kg	1	10/31/2022 4:03:22 PM	71130
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	10/31/2022 4:03:22 PM	71130

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 15 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH3

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:15:00 PM

 Lab ID:
 2210D58-016
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	1100	61	mg/Kg	20	11/2/2022 1:51:20 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 9:23:36 PM	71174
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2022 9:23:36 PM	71174
Surr: DNOP	93.3	21-129	%Rec	1	10/31/2022 9:23:36 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2022 4:26:42 PM	71130
Surr: BFB	93.5	37.7-212	%Rec	1	10/31/2022 4:26:42 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	10/31/2022 4:26:42 PM	71130
Toluene	ND	0.049	mg/Kg	1	10/31/2022 4:26:42 PM	71130
Ethylbenzene	ND	0.049	mg/Kg	1	10/31/2022 4:26:42 PM	71130
Xylenes, Total	ND	0.098	mg/Kg	1	10/31/2022 4:26:42 PM	71130
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	10/31/2022 4:26:42 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH4

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:20:00 PM

 Lab ID:
 2210D58-017
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	1300	60	mg/Kg	20	11/2/2022 2:03:44 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 9:34:10 PM	71174
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 9:34:10 PM	71174
Surr: DNOP	92.5	21-129	%Rec	1	10/31/2022 9:34:10 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/31/2022 4:50:05 PM	71130
Surr: BFB	93.4	37.7-212	%Rec	1	10/31/2022 4:50:05 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	10/31/2022 4:50:05 PM	71130
Toluene	ND	0.047	mg/Kg	1	10/31/2022 4:50:05 PM	71130
Ethylbenzene	ND	0.047	mg/Kg	1	10/31/2022 4:50:05 PM	71130
Xylenes, Total	ND	0.095	mg/Kg	1	10/31/2022 4:50:05 PM	71130
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	10/31/2022 4:50:05 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH5

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:25:00 PM

 Lab ID:
 2210D58-018
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	NAI
Chloride	820	60	mg/Kg	20	11/2/2022 2:16:09 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 9:44:47 PM	71174
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 9:44:47 PM	71174
Surr: DNOP	97.8	21-129	%Rec	1	10/31/2022 9:44:47 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2022 5:13:23 PM	71130
Surr: BFB	90.2	37.7-212	%Rec	1	10/31/2022 5:13:23 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2022 5:13:23 PM	71130
Toluene	ND	0.050	mg/Kg	1	10/31/2022 5:13:23 PM	71130
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2022 5:13:23 PM	71130
Xylenes, Total	ND	0.10	mg/Kg	1	10/31/2022 5:13:23 PM	71130
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	10/31/2022 5:13:23 PM	71130

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH6

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:30:00 PM

 Lab ID:
 2210D58-019
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	440	60	mg/Kg	20	11/2/2022 2:28:33 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 9:55:21 PM	71174
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 9:55:21 PM	71174
Surr: DNOP	91.9	21-129	%Rec	1	10/31/2022 9:55:21 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2022 5:36:48 PM	71130
Surr: BFB	90.7	37.7-212	%Rec	1	10/31/2022 5:36:48 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2022 5:36:48 PM	71130
Toluene	ND	0.050	mg/Kg	1	10/31/2022 5:36:48 PM	71130
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2022 5:36:48 PM	71130
Xylenes, Total	ND	0.099	mg/Kg	1	10/31/2022 5:36:48 PM	71130
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	10/31/2022 5:36:48 PM	71130

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH7

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:35:00 PM

 Lab ID:
 2210D58-020
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	1300	60	mg/Kg	20	11/2/2022 3:05:46 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 10:05:55 PM	<i>I</i> 71174
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2022 10:05:55 PM	<i>l</i> 71174
Surr: DNOP	109	21-129	%Rec	1	10/31/2022 10:05:55 PM	<i>l</i> l 71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/31/2022 6:00:15 PM	71130
Surr: BFB	87.5	37.7-212	%Rec	1	10/31/2022 6:00:15 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	10/31/2022 6:00:15 PM	71130
Toluene	ND	0.046	mg/Kg	1	10/31/2022 6:00:15 PM	71130
Ethylbenzene	ND	0.046	mg/Kg	1	10/31/2022 6:00:15 PM	71130
Xylenes, Total	ND	0.092	mg/Kg	1	10/31/2022 6:00:15 PM	71130
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	10/31/2022 6:00:15 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH8

Project: Hunt APO State 1 **Collection Date:** 10/25/2022 1:40:00 PM Lab ID: 2210D58-021 Matrix: SOIL Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	NAI
Chloride	910	59	mg/Kg	20	11/2/2022 3:18:11 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 10:16:26 PM	71174
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/31/2022 10:16:26 PM	71174
Surr: DNOP	92.8	21-129	%Rec	1	10/31/2022 10:16:26 PM	71174
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/31/2022 6:23:52 PM	71130
Surr: BFB	88.9	37.7-212	%Rec	1	10/31/2022 6:23:52 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	10/31/2022 6:23:52 PM	71130
Toluene	ND	0.048	mg/Kg	1	10/31/2022 6:23:52 PM	71130
Ethylbenzene	ND	0.048	mg/Kg	1	10/31/2022 6:23:52 PM	71130
Xylenes, Total	ND	0.096	mg/Kg	1	10/31/2022 6:23:52 PM	71130
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	10/31/2022 6:23:52 PM	71130

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 21 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH9

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:45:00 PM

 Lab ID:
 2210D58-022
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	1900	60	mg/Kg	20	11/2/2022 3:30:35 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	: JME
Diesel Range Organics (DRO)	70	14	mg/Kg	1	10/31/2022 7:22:35 PM	71176
Motor Oil Range Organics (MRO)	140	48	mg/Kg	1	10/31/2022 7:22:35 PM	71176
Surr: DNOP	101	21-129	%Rec	1	10/31/2022 7:22:35 PM	71176
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2022 6:47:27 PM	71130
Surr: BFB	88.1	37.7-212	%Rec	1	10/31/2022 6:47:27 PM	71130
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2022 6:47:27 PM	71130
Toluene	ND	0.049	mg/Kg	1	10/31/2022 6:47:27 PM	71130
Ethylbenzene	ND	0.049	mg/Kg	1	10/31/2022 6:47:27 PM	71130
Xylenes, Total	ND	0.098	mg/Kg	1	10/31/2022 6:47:27 PM	71130
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	10/31/2022 6:47:27 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH10

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:50:00 PM

 Lab ID:
 2210D58-023
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	1200	60	mg/Kg	20	11/2/2022 3:42:59 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	: JME
Diesel Range Organics (DRO)	110	14	mg/Kg	1	10/31/2022 8:33:29 PM	71176
Motor Oil Range Organics (MRO)	170	47	mg/Kg	1	10/31/2022 8:33:29 PM	71176
Surr: DNOP	97.5	21-129	%Rec	1	10/31/2022 8:33:29 PM	71176
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2022 7:10:58 PM	71130
Surr: BFB	88.7	37.7-212	%Rec	1	10/31/2022 7:10:58 PM	71130
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2022 7:10:58 PM	71130
Toluene	ND	0.050	mg/Kg	1	10/31/2022 7:10:58 PM	71130
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2022 7:10:58 PM	71130
Xylenes, Total	ND	0.099	mg/Kg	1	10/31/2022 7:10:58 PM	71130
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	10/31/2022 7:10:58 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH11

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 1:55:00 PM

 Lab ID:
 2210D58-024
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	Batch
EPA METHOD 300.0: ANIONS					Analyst: N	1AI
Chloride	840	59	mg/Kg	20	11/2/2022 3:55:24 AM 7	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: J	JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 8:57:06 PM 7	71176
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/31/2022 8:57:06 PM 7	71176
Surr: DNOP	93.5	21-129	%Rec	1	10/31/2022 8:57:06 PM 7	71176
EPA METHOD 8015D: GASOLINE RANGE					Analyst: N	ISB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/31/2022 8:21:52 PM 7	71130
Surr: BFB	89.6	37.7-212	%Rec	1	10/31/2022 8:21:52 PM 7	71130
EPA METHOD 8021B: VOLATILES					Analyst: N	ISB
Benzene	ND	0.024	mg/Kg	1	10/31/2022 8:21:52 PM 7	71130
Toluene	ND	0.048	mg/Kg	1	10/31/2022 8:21:52 PM 7	71130
Ethylbenzene	ND	0.048	mg/Kg	1	10/31/2022 8:21:52 PM 7	71130
Xylenes, Total	ND	0.096	mg/Kg	1	10/31/2022 8:21:52 PM 7	71130
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	1	10/31/2022 8:21:52 PM 7	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** BH12

Project: Hunt APO State 1 **Collection Date:** 10/25/2022 2:00:00 PM Lab ID: 2210D58-025 Matrix: SOIL Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: NAI
Chloride	2400	150	mg/Kg	50	11/2/2022 4:32:24 PM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 9:20:41 PM	71176
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2022 9:20:41 PM	71176
Surr: DNOP	97.3	21-129	%Rec	1	10/31/2022 9:20:41 PM	71176
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2022 8:45:23 PM	71130
Surr: BFB	92.3	37.7-212	%Rec	1	10/31/2022 8:45:23 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/31/2022 8:45:23 PM	71130
Toluene	ND	0.049	mg/Kg	1	10/31/2022 8:45:23 PM	71130
Ethylbenzene	ND	0.049	mg/Kg	1	10/31/2022 8:45:23 PM	71130
Xylenes, Total	ND	0.098	mg/Kg	1	10/31/2022 8:45:23 PM	71130
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	10/31/2022 8:45:23 PM	71130

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 25 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW4

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 2:05:00 PM

 Lab ID:
 2210D58-026
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	190	60	mg/Kg	20	11/2/2022 4:20:12 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 9:44:14 PM	71176
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2022 9:44:14 PM	71176
Surr: DNOP	97.2	21-129	%Rec	1	10/31/2022 9:44:14 PM	71176
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/31/2022 9:08:52 PM	71130
Surr: BFB	86.1	37.7-212	%Rec	1	10/31/2022 9:08:52 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	10/31/2022 9:08:52 PM	71130
Toluene	ND	0.047	mg/Kg	1	10/31/2022 9:08:52 PM	71130
Ethylbenzene	ND	0.047	mg/Kg	1	10/31/2022 9:08:52 PM	71130
Xylenes, Total	ND	0.094	mg/Kg	1	10/31/2022 9:08:52 PM	71130
Surr: 4-Bromofluorobenzene	91.5	70-130	%Rec	1	10/31/2022 9:08:52 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 26 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW5

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 2:10:00 PM

 Lab ID:
 2210D58-027
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	4600	300	mg/Kg	100	0 11/2/2022 4:44:49 PM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 10:07:49 PM	/I 71176
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/31/2022 10:07:49 PN	<i>l</i> 71176
Surr: DNOP	98.5	21-129	%Rec	1	10/31/2022 10:07:49 PN	<i>l</i> 71176
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/31/2022 9:32:21 PM	71130
Surr: BFB	90.4	37.7-212	%Rec	1	10/31/2022 9:32:21 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	10/31/2022 9:32:21 PM	71130
Toluene	ND	0.046	mg/Kg	1	10/31/2022 9:32:21 PM	71130
Ethylbenzene	ND	0.046	mg/Kg	1	10/31/2022 9:32:21 PM	71130
Xylenes, Total	ND	0.091	mg/Kg	1	10/31/2022 9:32:21 PM	71130
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	10/31/2022 9:32:21 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 27 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW6

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 2:15:00 PM

 Lab ID:
 2210D58-028
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	360	59	mg/Kg	20	11/2/2022 4:45:01 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 10:31:26 PM	1 71176
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/31/2022 10:31:26 PM	1 71176
Surr: DNOP	95.0	21-129	%Rec	1	10/31/2022 10:31:26 PM	1 71176
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2022 9:55:50 PM	71130
Surr: BFB	90.8	37.7-212	%Rec	1	10/31/2022 9:55:50 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2022 9:55:50 PM	71130
Toluene	ND	0.049	mg/Kg	1	10/31/2022 9:55:50 PM	71130
Ethylbenzene	ND	0.049	mg/Kg	1	10/31/2022 9:55:50 PM	71130
Xylenes, Total	ND	0.098	mg/Kg	1	10/31/2022 9:55:50 PM	71130
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	10/31/2022 9:55:50 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 28 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW7

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 2:20:00 PM

 Lab ID:
 2210D58-029
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	NAI
Chloride	840	60	mg/Kg	20	11/2/2022 4:57:25 AM	71220
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 10:55:05 PM	71176
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/31/2022 10:55:05 PM	71176
Surr: DNOP	97.0	21-129	%Rec	1	10/31/2022 10:55:05 PM	71176
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2022 10:19:22 PM	71130
Surr: BFB	84.7	37.7-212	%Rec	1	10/31/2022 10:19:22 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2022 10:19:22 PM	71130
Toluene	ND	0.049	mg/Kg	1	10/31/2022 10:19:22 PM	71130
Ethylbenzene	ND	0.049	mg/Kg	1	10/31/2022 10:19:22 PM	71130
Xylenes, Total	ND	0.099	mg/Kg	1	10/31/2022 10:19:22 PM	71130
Surr: 4-Bromofluorobenzene	89.9	70-130	%Rec	1	10/31/2022 10:19:22 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 29 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW8

Project: Hunt APO State 1 **Collection Date:** 10/25/2022 2:25:00 PM Lab ID: 2210D58-030 Matrix: SOIL Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	atch
EPA METHOD 300.0: ANIONS					Analyst: N	1AI
Chloride	1700	60	mg/Kg	20	11/2/2022 11:22:09 AM 7	71230
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: J l	ME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/31/2022 11:18:42 PM 7	'1176
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/31/2022 11:18:42 PM 7	'1176
Surr: DNOP	100	21-129	%Rec	1	10/31/2022 11:18:42 PM 7	'1176
EPA METHOD 8015D: GASOLINE RANGE					Analyst: N	1SB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/31/2022 10:42:51 PM 7	' 1130
Surr: BFB	89.4	37.7-212	%Rec	1	10/31/2022 10:42:51 PM 7	' 1130
EPA METHOD 8021B: VOLATILES					Analyst: N	1SB
Benzene	ND	0.023	mg/Kg	1	10/31/2022 10:42:51 PM 7	' 1130
Toluene	ND	0.046	mg/Kg	1	10/31/2022 10:42:51 PM 7	' 1130
Ethylbenzene	ND	0.046	mg/Kg	1	10/31/2022 10:42:51 PM 7	' 1130
Xylenes, Total	ND	0.092	mg/Kg	1	10/31/2022 10:42:51 PM 7	' 1130
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	10/31/2022 10:42:51 PM 7	′1130

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 30 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW9

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 2:30:00 PM

 Lab ID:
 2210D58-031
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	NAI
Chloride	690	59	mg/Kg	20	11/2/2022 11:59:22 AM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/31/2022 11:42:16 PM	71176
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/31/2022 11:42:16 PM	71176
Surr: DNOP	95.6	21-129	%Rec	1	10/31/2022 11:42:16 PM	71176
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2022 11:06:13 PM	71130
Surr: BFB	89.5	37.7-212	%Rec	1	10/31/2022 11:06:13 PM	71130
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2022 11:06:13 PM	71130
Toluene	ND	0.050	mg/Kg	1	10/31/2022 11:06:13 PM	71130
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2022 11:06:13 PM	71130
Xylenes, Total	ND	0.099	mg/Kg	1	10/31/2022 11:06:13 PM	71130
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	10/31/2022 11:06:13 PM	71130

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 31 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID: SW2A**

Project: Hunt APO State 1 **Collection Date:** 10/25/2022 2:35:00 PM Lab ID: 2210D58-032 Matrix: SOIL Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: NA	Al
Chloride	ND	60	mg/Kg	20	11/2/2022 12:36:36 PM 71:	1230
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JN	ИE
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 12:05:59 AM 71	1176
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 12:05:59 AM 71	1176
Surr: DNOP	99.0	21-129	%Rec	1	11/1/2022 12:05:59 AM 71	1176
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NS	SB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/31/2022 11:29:50 PM 71	130
Surr: BFB	87.6	37.7-212	%Rec	1	10/31/2022 11:29:50 PM 71	130
EPA METHOD 8021B: VOLATILES					Analyst: NS	SB
Benzene	ND	0.024	mg/Kg	1	10/31/2022 11:29:50 PM 71	130
Toluene	ND	0.048	mg/Kg	1	10/31/2022 11:29:50 PM 71	130
Ethylbenzene	ND	0.048	mg/Kg	1	10/31/2022 11:29:50 PM 71	130
Xylenes, Total	ND	0.096	mg/Kg	1	10/31/2022 11:29:50 PM 71	130
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	10/31/2022 11:29:50 PM 71	130

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 32 of 42

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW3A

 Project:
 Hunt APO State 1
 Collection Date: 10/25/2022 2:40:00 PM

 Lab ID:
 2210D58-033
 Matrix: SOIL
 Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS					Analyst: NAI	l
Chloride	ND	60	mg/Kg	20	11/2/2022 12:49:01 PM 7123	30
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JME	E
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 12:29:34 AM 7117	76
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 12:29:34 AM 7117	76
Surr: DNOP	92.4	21-129	%Rec	1	11/1/2022 12:29:34 AM 7117	76
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCN	М
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/31/2022 2:25:00 PM 7116	60
Surr: BFB	109	37.7-212	%Rec	1	10/31/2022 2:25:00 PM 7116	60
EPA METHOD 8021B: VOLATILES					Analyst: CCN	М
Benzene	ND	0.024	mg/Kg	1	10/31/2022 2:25:00 PM 7116	60
Toluene	ND	0.048	mg/Kg	1	10/31/2022 2:25:00 PM 7116	60
Ethylbenzene	ND	0.048	mg/Kg	1	10/31/2022 2:25:00 PM 7116	60
Xylenes, Total	ND	0.096	mg/Kg	1	10/31/2022 2:25:00 PM 7116	60
Surr: 4-Bromofluorobenzene	130	70-130	%Rec	1	10/31/2022 2:25:00 PM 7116	60

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 33 of 42

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210D58

04-Nov-22

Client: Project:	GHD Mid Hunt APO										
Sample ID:	MB-71218	SampTyr	pe: mb l	lk	Tes	tCode: El	PA Method :	300.0: Anions	<u> </u>		
Client ID:	PBS		D: 712		F	RunNo: 9	2252				
Prep Date:	11/1/2022	Analysis Dat	te: 11/	/1/2022	;	SeqNo: 3	313663	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-71218	SampTyp	pe: Ics		Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch I	D: 712	218	F	RunNo: 9	2252				
Prep Date:	11/1/2022	Analysis Dat	te: 11/	/1/2022	;	SeqNo: 3	313664	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	96.0	90	110			
Sample ID:	MB-71220	SampTyp	pe: mb l	lk	Tes	tCode: El	PA Method	300.0: Anion:	S		
Client ID:	PBS	Batch I	D: 712	220	F	RunNo: 9	2252				
Prep Date:	11/1/2022	Analysis Dat	te: 11/	/1/2022	;	SeqNo: 3	313695	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-71220	SampTyp	pe: Ics		Tes	tCode: El	PA Method	300.0: Anion:	S		
Client ID:	LCSS	Batch I	D: 712	220	F	RunNo: 9	2252				
Prep Date:	11/1/2022	Analysis Dat	te: 11/	/1/2022	;	SeqNo: 3	313696	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.7	90	110			
Sample ID:	MB-71230	SampTyp	pe: mb l	lk	Tes	tCode: El	PA Method	300.0: Anion:	S		
Client ID:	PBS	Batch I	D: 712	30	F	RunNo: 9	2306				
Prep Date:	11/2/2022	Analysis Dat	te: 11/	/2/2022	;	SeqNo: 3;	316142	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-71230	SampTyr	pe: Ics		Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch I	D: 712	230	F	RunNo: 9	2306				

Qualifiers:

Analyte

Chloride

- 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 standard limits. If undiluted results may be estimated.

PQL

Result

Analyte detected in the associated Method Blank

LowLimit

HighLimit

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val %REC

Page 34 of 42

RPDLimit

Qual

%RPD

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D58 04-Nov-22**

Client:	GHD Midland
Project:	Hunt APO State 1

Project: Hunt AP	O State 1		
Sample ID: LCS-71171	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 71171	RunNo: 92198	
Prep Date: 10/31/2022	Analysis Date: 10/31/2022	SeqNo: 3311075	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	46 15 50.00	0 92.2 64.4	127
Surr: DNOP	4.4 5.000	88.2 21	129
Sample ID: MB-71171	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 71171	RunNo: 92198	
Prep Date: 10/31/2022	Analysis Date: 10/31/2022	SeqNo: 3311076	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 15		
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 9.0 10.00	90.3 21	129
Sample ID: MB-71176	SampType: MBLK		8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 71176	RunNo: 92192	
Prep Date: 10/31/2022	Analysis Date: 10/31/2022	SeqNo: 3311494	Units: mg/Kg
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	ND 15 ND 50		
Surr: DNOP	9.7 10.00	96.6 21	129
Sample ID: LCS-71176	SampType: LCS	TostCodo: EBA Mothod	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 71176	RunNo: 92192	outswild. Dieser Kange Organics
Prep Date: 10/31/2022	Analysis Date: 10/31/2022	SegNo: 3311495	Units: mg/Kg
Analyte	Result PQL SPK value	·	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	50 15 50.00	0 101 64.4	127
Surr: DNOP	5.000	100 21	129
Sample ID: 2210D58-022AMS	SampType: MS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: BH9	Batch ID: 71176	RunNo: 92192	
Prep Date: 10/31/2022	Analysis Date: 10/31/2022	SeqNo: 3311497	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	120 14 48.17	70.46 98.0 36.1	154
Surr: DNOP	4.9 4.817	102 21	129

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 35 of 42

Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 10/31/2022

PQL

15

50

Result

ND

ND

9.7

WO#: **2210D58 04-Nov-22**

Client: GHD Midland
Project: Hunt APO State 1

Sample ID:	2210D58-022AMSD	SampTy	ре: МS	SD	Tes	8015M/D: Die	sel Range	Organics				
Client ID:	ВН9	Batch	ID: 71 1	176	RunNo: 92192							
Prep Date:	10/31/2022	Analysis Da	ite: 10	/31/2022	9	SeqNo: 33	311498	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Organics (DRO)	110	15	49.70	70.46	74.7	36.1	154	8.95	33.9		
Surr: DNOP		5.1		4.970		103	21	129	0	0		
Sample ID:	LCS-71174	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID:	LCSS	Batch	ID: 71 1	174	F	RunNo: 92	2198					
Client ID: Prep Date:	LCSS 10/31/2022	Batch Analysis Da		174 0/31/2022		RunNo: 9 2 SeqNo: 3 3		Units: mg/K	(g			
)/31/2022				Units: mg/K	(g %RPD	RPDLimit	Qual	
Prep Date: Analyte		Analysis Da	ite: 10)/31/2022	5	SeqNo: 33	312301	J	-	RPDLimit	Qual	
Prep Date: Analyte	10/31/2022	Analysis Da	nte: 10	0/31/2022 SPK value	SPK Ref Val	SeqNo: 33	312301 LowLimit	HighLimit	-	RPDLimit	Qual	
Prep Date: Analyte Diesel Range 0	10/31/2022 Drganics (DRO)	Analysis Da Result	PQL 15	SPK value 50.00 5.000	SPK Ref Val	SeqNo: 33 %REC 95.7 110	LowLimit 64.4 21	HighLimit 127	%RPD		Qual	

SPK value SPK Ref Val %REC

10.00

SeqNo: 3312302

96.8

LowLimit

21

Units: mg/Kg

129

HighLimit

%RPD

RPDLimit

Qual

Qualifiers:

Prep Date:

Surr: DNOP

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Analyte

10/31/2022

- 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 Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 36 of 42

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210D58

04-Nov-22

Client: GHD Midland **Project:** Hunt APO State 1

	Tunt Ai C) Built I											
Sample ID:	lcs-71125	SampT	ype: LC	s	Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	LCSS	Batch	ı ID: 71 1	125	F	RunNo: 92	196						
Prep Date:	10/27/2022	Analysis D	ate: 10	/29/2022	5	SeqNo: 33	310421	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
•	e Organics (GRO)	24	5.0	25.00	0	97.6	72.3	137					
Surr: BFB		2200		1000		221	37.7	212			S		
Sample ID:	mb-71125	SampT	ype: ME	BLK	Tes	tCode: EP	A Method	8015D: Gaso	line Range				
Client ID:	PBS	Batch	ı ID: 71 1	125	F	RunNo: 92	196						
Prep Date:	10/27/2022	Analysis D	ate: 10	/29/2022	5	SeqNo: 33	10422	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
-	e Organics (GRO)	ND	5.0										
Surr: BFB		1000		1000		102	37.7	212					
Sample ID:	mb-71130	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	PBS	Batch	ı ID: 71 1	130	RunNo: 92213								
Prep Date:	10/27/2022	Analysis D	ate: 10	/31/2022	SeqNo: 3311330			Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
_	e Organics (GRO)	ND	5.0										
Surr: BFB		890		1000		89.5	37.7	212					
Sample ID:	lcs-71130	SampT	ype: LC	s	TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	LCSS	Batch	n ID: 71 1	130	F	RunNo: 92	213						
Prep Date:	10/27/2022	Analysis D	ate: 10	/31/2022	9	SeqNo: 33	11331	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	25	5.0	25.00	0	100	72.3	137					
Surr: BFB		1900		1000		194	37.7	212					
Sample ID:	2210d58-013ams	SampT	ype: MS	<u> </u>	Tes	tCode: EP	A Method	8015D: Gaso	line Range				
Client ID:	BH25	Batch	ı ID: 71 1	130	F	RunNo: 92	213						
Prep Date:	10/27/2022	Analysis D	ate: 10	/31/2022	S	SeqNo: 33	11333	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	16	4.6	23.15	0	68.1	70	130	_		S		
Surr: BFB		1700		925.9		184	37.7	212					
Sample ID:	2210d58-013amsd	SampT	ype: MS	SD .	Tes	tCode: EP	A Method	8015D: Gaso	line Range				
Client ID:	BH25	Batch	n ID: 71 1	130	F	RunNo: 92	213						
Prep Date:	10/27/2022	Analysis D	ate: 10	/31/2022	SeqNo: 3311334 Units: mg/Kg								

Qualifiers:

Analyte

- 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 standard limits. If undiluted results may be estimated.

Result

PQL

Analyte detected in the associated Method Blank

LowLimit

HighLimit

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val %REC

Page 37 of 42

RPDLimit

Qual

%RPD

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D58 04-Nov-22**

Client: GHD Midland
Project: Hunt APO State 1

Project:	Hunt APC	State 1										
Sample ID:	2210d58-013amsd	SampT	уре: м	SD	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	BH25	Batch	ID: 71	130	F	RunNo: 92	2213					
Prep Date:	10/27/2022	Analysis D	ate: 10)/31/2022	5	SeqNo: 3311334			g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	e Organics (GRO)	21	4.7	23.43	0	88.1	70	130	26.8	20	R	
Surr: BFB		1700		937.2		180	37.7	212	0	0		
Sample ID:	mb-71164	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range			
Client ID:	PBS	Batch	ID: 71	164	F	RunNo: 92	2213					
Prep Date:	10/28/2022	Analysis D	ate: 1 1	I/1/2022	5	SeqNo: 33	311358	Units: %Rec	:			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		900		1000		89.8	37.7	212				
Sample ID:	lcs-71164	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	1		
Client ID:	LCSS	Batch	ID: 71	164	F	RunNo: 92	2213					
Prep Date:	10/28/2022	Analysis D	ate: 1 1	1/1/2022	5	SeqNo: 33	311359	Units: %Rec	:			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		2000		1000		197	37.7	212				
Sample ID:	lcs-71160	SampT	ype: LC	:S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range			
Client ID:	LCSS	Batch	 i ID: 71	160	F	RunNo: 92	2226		J			
Prep Date:	10/28/2022	Analysis D	ate: 1 ()/31/2022	Ş	SeqNo: 33	312314	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	e Organics (GRO)	25	5.0	25.00	0	101	72.3	137				
Surr: BFB		2100		1000		210	37.7	212				
Sample ID:	mb-71160	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range			
Client ID:	PBS	Batch	ID: 71	160	F	RunNo: 92	2226					
Prep Date:	10/28/2022	Analysis D	ate: 10)/31/2022	5	SeqNo: 33	312316	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	e Organics (GRO)	ND	5.0									
Surr: BFB		950		1000		95.2	37.7	212				
Sample ID:	2210D58-033ams	SampT	уре: М	3	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range			
Client ID:	SW3A	Batch	ID: 71	160	F	RunNo: 92	2226					
Oliciti ID.	• • • • • • • • • • • • • • • • • • • •											
Prep Date:	10/28/2022	Analysis D	ate: 10)/31/2022	9	SeqNo: 33	312318	Units: mg/K	g			
		Analysis D	ate: 1(PQL	0/31/2022 SPK value	SPK Ref Val	·	312318 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual	
Prep Date: Analyte		•						Ü	·	RPDLimit	Qual S	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 38 of 42

Hall Environmental Analysis Laboratory, Inc.

2210D58 04-Nov-22

WO#:

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: 2210D58-033amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SW3A Batch ID: 71160 RunNo: 92226

Prep Date: 10/28/2022 Analysis Date: 10/31/2022 SeqNo: 3312319 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 19 4.8 24.11 78.3 70 130 21.3 20 R Surr: BFB 1900 964.3 200 37.7 212 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 39 of 42

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D58 04-Nov-22**

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: Ics-71125	Samp ¹	Гуре: LC :	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: 711	125	F	RunNo: 92	2196				
Prep Date: 10/27/2022	Analysis [Date: 10	/29/2022	5	SeqNo: 3	310571	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	118	80	120			
Toluene	1.2	0.050	1.000	0	118	80	120			
Ethylbenzene	1.2	0.050	1.000	0	119	80	120			
Xylenes, Total	3.6	0.10	3.000	0	119	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		121	70	130			
Sample ID: mb-71125	Samp	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 711	125	F	RunNo: 92	2196				
Prep Date: 10/27/2022	Analysis [Date: 10	/29/2022	5	SeqNo: 3	310572	Units: mg/K	g		

Client ID: PBS	Batch	h ID: 711	25	F	RunNo: 92	2196				
Prep Date: 10/27/2022	Analysis D)ate: 10	/29/2022	5	SeqNo: 33	310572	Units: mg/K	g		
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	1.2		1.000		120	70	130			

Sample ID: mb-71130	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: 71 1	130	F	RunNo: 92	2213				
Prep Date: 10/27/2022	Analysis D	Date: 10	/31/2022	5	SeqNo: 3	311379	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: LCS-71130	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	n ID: 711	30	F	RunNo: 92	2213				
Prep Date: 10/27/2022	Analysis D	Date: 10	/31/2022	9	SeqNo: 33	311380	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.2	80	120			
Toluene	1.0	0.050	1.000	0	99.5	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	0.97		1.000		97.1	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 40 of 42

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D58 04-Nov-22**

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: 2210d58-014ams	SampT	уре: МЅ	i	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BH1	Batcl	n ID: 711	30	F	RunNo: 92	2213				
Prep Date: 10/27/2022	Analysis D	Date: 10	/31/2022	5	SeqNo: 33	311383	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9814	0	87.4	68.8	120			
Toluene	0.90	0.049	0.9814	0	91.5	73.6	124			
Ethylbenzene	0.90	0.049	0.9814	0	91.9	72.7	129			
Xylenes, Total	2.7	0.098	2.944	0.01961	91.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9814		98.7	70	130			

Sample ID: 2210d58-014amsd	Samp	ype: MS	שפ	I es	itCode: El	'A Method	8021B: Volati	les		
Client ID: BH1	Batcl	h ID: 71 1	130	F	RunNo: 92	2213				
Prep Date: 10/27/2022	Analysis [Date: 10	/31/2022	5	SeqNo: 3	311384	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9862	0	89.5	68.8	120	2.88	20	
Toluene	0.91	0.049	0.9862	0	92.4	73.6	124	1.51	20	
Ethylbenzene	0.91	0.049	0.9862	0	92.7	72.7	129	1.36	20	
Xylenes, Total	2.7	0.099	2.959	0.01961	92.2	75.7	126	1.25	20	
Surr: 4-Bromofluorobenzene	0.98		0.9862		99.2	70	130	0	0	

Sample ID: mb-71164	SampTy	pe: MB	LK	Tes	tCode: EF	PA Method	8021B: Volati	es		
Client ID: PBS	Batch I	ID: 711	64	F	RunNo: 92	2213				
Prep Date: 10/28/2022	Analysis Da	ite: 11/	1/2022	5	SeqNo: 33	311403	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

Sample ID: LCS-71164	SampTyp	e: LCS	Tes	tCode: EP	A Method	8021B: Volati	es		
Client ID: LCSS	Batch II	D: 71164	R	RunNo: 92	213				
Prep Date: 10/28/2022	Analysis Date	e: 11/1/2022	S	SeqNo: 33	311404	Units: %Rec			
Analyte	Result I	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97	1.000	_	96.8	70	130			_

Sample ID: mb-71160	SampT	Гуре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: 711	60	F	RunNo: 92	2226				
Prep Date: 10/28/2022	Analysis D	Date: 10	/31/2022	5	SeqNo: 3	312418	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 41 of 42

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D58**

04-Nov-22

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: mb-71160 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 71160 RunNo: 92226

Prep Date: 10/28/2022 Analysis Date: 10/31/2022 SeqNo: 3312418 Units: mg/Kg

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 1.2 1.000 119 70 130

Sample ID: Ics-71160	Samp	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	n ID: 71 1	160	F	RunNo: 92	2226				
Prep Date: 10/28/2022	Analysis [Date: 10	/31/2022	9	SeqNo: 33	312611	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	122	80	120			S
Toluene	1.2	0.050	1.000	0	121	80	120			S
Ethylbenzene	1.2	0.050	1.000	0	121	80	120			S
Xylenes, Total	3.6	0.10	3.000	0	120	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 42 of 42

ENVIRONMENTAL ANALYSIS **ABORATORY**

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **GHD Midland** Work Order Number: 2210D58 RcptNo: 1 (Juansay Received By: Juan Rojas 10/27/2022 7:25:00 AM Completed By: **Tracy Casarrubias** 10/27/2022 8:50:37 AM Reviewed By: W 10.27.22 Chain of Custody 1. Is Chain of Custody complete? No 🗌 Yes 🗸 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No \square NA \square 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA \square 5. Sample(s) in proper container(s)? Yes 🗸 No | 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No \square 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 8. Was preservative added to bottles? Yes No 🗸 NA \square 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes 🗌 No 🗌 NA 🗸 10. Were any sample containers received broken? Yes 🗌 No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🔽 No 🗌 JN10/27/22 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: Samples 001,003,004,007,010,011,013 have KPG 10.27.22 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By 1 0.8 Good

			: •																Ī	
	7		1																Rec	-
i	Chair	2-10-C	Chain-of-Custody Record	Turn-Around Time:	f Time:	0				=		ĺ		Ì					eįvei	
Client:	アア	0		Standard	d 🗆 Rush	in Sohn	7				HALL ENVI			8 5	Z	HALL ENVIRONMENTA		N I	d by	
				Project Name:	6	100	,			1		ה ב	7		ם כ	A DO KA		0 8	0C1 _	0-
Mailin	g Addres	is: 324	Mailing Address: 324 いんがん St.	たるナ)	200	くれが井	4	9	www.ha	§ §	w.ha	lenvii	www.hallenvironmental.com	ental.	Com	9): 6/6	
Artesia	osla, h	NN 8	88510	Project #:	1	000		}	Tel 505-345-3975	WKIIIS	NE -		Aibuquerque, NM 87109	que, r		/109			5/202	
Phone #:)	E (S05	377-4218		カ リ21	(99)			71. 000	040	A	Analysis		Request	3t 10	_			3 2:	
email	email or Fax#:	- 1	nate, rece@ghd.com	Project Man	Project Manager: Nate Deco	DACO		-				†C		(1				_	07:2	
QAVQC	QA/QC Package:	<u></u> .		77	Harre	į			s's	SV)S "		uəso					2 P	
□ Standard	ndard		☐ Level 4 (Full Validation)))	,			PCI	VIS		Ю	-	JA\1					И	
Accre	Accreditation:		☐ Az Compliance	Sampler:	_	Strallert						O ⁵		uəse						100
	□ NELAC	□ Other		On Ice:	-D-Yes	% □			_			N '	(0)					_	_	
	(Type)	-		# of Coolers:	١															
				Cooler Temp(including CF):	(including CF):	3.6+6.7-20.	(C)													
	İ			Container	Preservative	HEAL No.		4:804 EX \	94 18	B (Me	8 AЯ	E, B	O(V) 08	al Co						
Date		-	Sample Name	Type and #	Type	126						_								
00	- 1	20.1	SH3	12	100	9		X				,	10	1,1	0		-	<u> </u>		
	502		BHIY			(7/7)		F	\vdash	-			ła G	-			┢	+	L	
	150		BAIS			2002			1	-		-	+	-			+	+	I	
	5121		9748			34			1	\dotplus		+	+				╁	+		
	0271		BHIJ			100			+	-		#	╁	_	_		+	+	-	
	1223		134(8			(A)				-		‡	+	_	_		+	+		
	927		131719			900			+	+		+	+	-			+	+	\bot	
	(53)		81-120			600			-	+		+	+	_			+	+	I	
	921		12451			300			+	\vdash		+	+	\perp			+	+		
	5621		13452			010			-	-		+	+	-		T	+	╀	I	
	0521		8473			000			+	-		+	+	-	L	T	+	+	I	
→	1565	9	BHZY		₽	210			+	+			+	+			+	+		
Date: 10%	Time: OSCO	Relinquishe	Freschort The	Received by:	Via:	Date T		Remarks:	: P/P	Pase	enci	-	Ch	chase.	1 ,	Sett le Grareur	3	3/8	Pag S	24
Date:	Time:	Relinquished by:	bd by:	Received by:	Via:	-	T	in a properto hace	Deriva	かん	2.00 d.00.		Mather 1	6-19	Tang	laughting glaceour	eggi.	gresource,		<u> </u>
E	1910	MANNAM	Mary	J	ついないの	32/22/01	2/2/2	along w	1/2/2	VateRece.	8		5	(42	Chase	E.	Settle,	0	5 of .	
	If necessary,	samples subr	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.	ontracted to other a	credited laboratoric		ice of this pos	ssibility. A	o-dus yuv	ontracte	d data	vill be c	early no	otated o	n the a	nalvtica	report		383	

	. 3			*												
		- -	ļ		Γ										Kece	Roce
Chain-or-Custody Record	Record	I urn-Around I ime	Ime:					6			Ì		1	Ì		ive
Client: GHO		☑ Standard	Rush	h 5 day	J L			MALL	П - П ≥				HALL ENVIRONMENTAL Analysts Labodator:		. >	d hv
		Project Name:		1717			•			ת ה			Z Z	2		oci
Mailing Address: 32 4 W.Min	54.	クマナ	12 P	がおかり	1	4901	Hawk	www.nailenvironmental.com	י ש	TITOTIL	nental	environmental.com Albuquerque NM 87109	7109); 0/0/): 6/6 _/
Artesla, NM 88210		Project #:	//: / (Τ	Tel.	505-34	505-345-3975		Fax	05-34	505-345-4107	2 .		/202.	/202
Phone #: (505) 377-42(8	(8	(12	9927	,)					Anal	sis F	Analysis Request	st			3 230	2 iDwl
email or Fax#: nate, recar @ghd.	id, com	Project Manager:	ger: Nate	RACO	()	(0			70		(*	(11			11:2	1 7-2
age:		ナナ メ	Myrroy		805			SW	S '*(ıəsn	-		Z PIV.	2 Pl
☐ Standard ☐ Level 4	□ Level 4 (Full Validation))) s _i			IS0	ьС		V/10	Vai				1_
	٠	Sampler:	am Glo	Sulpt	LMB			728	10 ⁵			1255			_	
□ NELAC □ Other		On Ice:	⊒-Yes	% _□	L /		_					21-1			_	
□ EDD (Type)	2.7	# of Coolers:			BE							\ 111	_			
		Cooler Temp(including CF): 0.646.2	Including CF);	646.2208(°C)								ioillo	-			
			Preservative		LEX /	08:H	M) 80	d aH/	<u>)</u> £' ≡	V) 09	S) 07	otal Co				
- IIIIe	Name	I ype and #	Type	2210058	B				~	- 17		21			_	_
1025 (300 50; BHZ	2	Sar	18	8	×	X	24.		X	no	8 3	Š				
1 1305 BHI		_		71.4												_
248 0181				Vo				1	\vdash		\vdash	F			\vdash	_
1315 18 13				010	F			-	-		+					
249				213	F	\perp	1	+	+		+	-			7	_
123 BHS			-		ŧ			+	1		+	-	+		+	
				010	F			-	1		+-	-	+		+	_
(33) BH)				020				-			+		+		-	_
(3-10) BH8				100							+	_			\vdash	_
PH9 345				273				-			-		-	L	-	_
1) H8 1 081 11		/ j.);	520	F			+			+				-	_
V 1355 V BHII	11.	Э		027	>			\vdash	-		\vdash	F	-		-	_
Date: Time: Relinquished by:	The sales	Received by:	Via:	Date Time	Rem:	Remarks: 1	Please	10 6.	ence	926	chase	34,7	Sett le Grafiesonnes.	Deag C	3anc	T Page
- R	8		Via:	1'	1 2 • • • • • • • • • • • • • • • • • • •	9	conte	liam girschotandicon	1,40	Mat	They'	laug	mather laughtinggler on	ha.c.		, 306
"para raco Calaman	8	1	7 (UVr.12	2.15 5AF5/01 -		126	Vate	Along W/ Nate Rece.		B.(C #	to C	(hase	Settle,	W	0 3	of 3
, sar	nvironmental may be subco	ntracted to other ac	credited laboratori	es. This serves as notice of	this possibi	lity. Any	sub-conf	racted da	ta will be	clearly	notated	on the a	nalytical rep	oort.	03	18.3

	H S				2											-1100
Client:	hain-of-	Chain-of-Custody Record :	cord	Turn-Around Time:	<	Chun			Ī	HALL		VIE	SON	ENVIRONMENT	ITAL	eived by
				Project Name:	e:	h /0-1			4	Z -	Z Z	S	ABO	ANALYSIS LABORATOR	TOR	
	ddress: 32	Mailing Address: 324 W.Main St.		R±	JAR C) State #1		www.nalli - 4901 Hawkins NF	wkin W	ww.na . ¬N	Jenvird	nmen	www.nallehvironmental.com	87100		. 0, 0,
	a, WM	88510		Project #:		001.	_	Tel. 50	Tel. 505-345-3975	3975	F	505	Eax 505-345-4107	601.70		
:# anould #:	(505)	1377-4218)	1221	(997				a a	nalys	Analysis Request	uest	5		
email or Fax#:		nate, reece@ghd.c	com	Project Manager	ager: Nate	Dace	_	(0			†C	76.7°	(11			
OA/QC Package:	ckage:	[3	ナナメ	<				3/1/	CIAII	S '7O	÷	Abser			
	1	☐ Level 4 (Full Validation)	Validation))	6				-	ч,		/ʃu			-
-		☐ Az Compliance	•	Sampler:	ने दि	Ersdo A				170	10 ⁵		əsə.	_	<u></u>	
□ NELAC	C C Other	ther		On Ice:	-P-Yes	% □					1 'E(AO	1d) (
	-			# of Coolers:				2000	-			y	mo			
				Cooler emp(including cF):		0.0+0.710.0FB							孙心		_	
Date	Time Matrix	× Sample Name		Container Type and #	Preservative Type	HEAL No.	X∃T8	08:Hq.	DB (N	PHS I	, न <i>(</i> 13	() 02Z	O lsto			
1025 14100				Jal	(20	>60		-	_		-	10	300		-	
-	1405	とろろ		_		626			\vdash		66					-
-	1410	5 ES				その										
	1415	3005				920										
	1420	5007		-		0.29										7
	1425	5008				030										
7X	1430	5209				031										
		5w2A				032										
7	14-10	5w3A.		7	75	033					>					
			^										\ .			
		\					· ·									
Date: Tin	Time: Relingu	Relinquished by:		Received by:	Via:	Date Time	Rema	Remarks: P/p	Pasp	1 00 2	~ `	chase.	37.00	sett 10	(C) (C)	1 Pesan
pate: Time:	<u> </u>	Relinquished by:		Received by:	Via:	J 7	l'an. gir	. %	Cotora,	otoraleon	\	matther.	- 12	250	gha.c	
If ne	scessary, samples	MMW VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	ntal may be subco	intracted to other ac	ccredited laboratori	I WW I MMWWW Commental 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.	s possibilit	by. Any su	a/e //C	ted data	vill be	arly note	off no bet	analytical	, boot	383

Released to Imaging: 6/30/2023 10:36:43 AM

22-12.01 DAY



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

November 30, 2022

Nate Reece GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086

FAX:

RE: Hunt APO State 1 OrderNo.: 2211799

Dear Nate Reece:

Hall Environmental Analysis Laboratory received 17 sample(s) on 11/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH2A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:00:00 AM

 Lab ID:
 2211799-001
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	710	60	mg/Kg	20	11/19/2022 2:17:17 PM	71602
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	11/18/2022 3:31:42 PM	71566
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	11/18/2022 3:31:42 PM	71566
Surr: DNOP	113	21-129	%Rec	1	11/18/2022 3:31:42 PM	71566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/18/2022 5:23:00 PM	71522
Surr: BFB	103	37.7-212	%Rec	1	11/18/2022 5:23:00 PM	71522
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	11/18/2022 5:23:00 PM	71522
Toluene	ND	0.049	mg/Kg	1	11/18/2022 5:23:00 PM	71522
Ethylbenzene	ND	0.049	mg/Kg	1	11/18/2022 5:23:00 PM	71522
Xylenes, Total	ND	0.099	mg/Kg	1	11/18/2022 5:23:00 PM	71522
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	11/18/2022 5:23:00 PM	71522

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

rting Limit Page 1 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH3A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:05:00 AM

 Lab ID:
 2211799-002
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	2300	150	mg/Kg	50	11/21/2022 8:52:58 AM	71602
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	20	13	mg/Kg	1	11/18/2022 3:42:19 PM	71566
Motor Oil Range Organics (MRO)	50	43	mg/Kg	1	11/18/2022 3:42:19 PM	71566
Surr: DNOP	113	21-129	%Rec	1	11/18/2022 3:42:19 PM	71566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/18/2022 5:42:00 PM	71522
Surr: BFB	102	37.7-212	%Rec	1	11/18/2022 5:42:00 PM	71522
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	11/18/2022 5:42:00 PM	71522
Toluene	ND	0.048	mg/Kg	1	11/18/2022 5:42:00 PM	71522
Ethylbenzene	ND	0.048	mg/Kg	1	11/18/2022 5:42:00 PM	71522
Xylenes, Total	ND	0.096	mg/Kg	1	11/18/2022 5:42:00 PM	71522
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	11/18/2022 5:42:00 PM	71522

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH4A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:10:00 AM

 Lab ID:
 2211799-003
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JTT
Chloride	2000	60		mg/Kg	20	11/19/2022 2:42:06 PM	71602
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	DGH
Diesel Range Organics (DRO)	ND	12		mg/Kg	1	11/18/2022 3:52:57 PM	71566
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	11/18/2022 3:52:57 PM	71566
Surr: DNOP	135	21-129	S	%Rec	1	11/18/2022 3:52:57 PM	71566
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2022 6:02:00 PM	71522
Surr: BFB	103	37.7-212		%Rec	1	11/18/2022 6:02:00 PM	71522
EPA METHOD 8021B: VOLATILES						Analyst	CCM
Benzene	ND	0.024		mg/Kg	1	11/18/2022 6:02:00 PM	71522
Toluene	ND	0.048		mg/Kg	1	11/18/2022 6:02:00 PM	71522
Ethylbenzene	ND	0.048		mg/Kg	1	11/18/2022 6:02:00 PM	71522
Xylenes, Total	ND	0.096		mg/Kg	1	11/18/2022 6:02:00 PM	71522
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	11/18/2022 6:02:00 PM	71522

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH5A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:15:00 AM

 Lab ID:
 2211799-004
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	870	60	mg/Kg	20	11/19/2022 2:54:31 PM	71602
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/18/2022 4:03:34 PM	71566
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/18/2022 4:03:34 PM	71566
Surr: DNOP	103	21-129	%Rec	1	11/18/2022 4:03:34 PM	71566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/18/2022 6:22:00 PM	71522
Surr: BFB	102	37.7-212	%Rec	1	11/18/2022 6:22:00 PM	71522
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	11/18/2022 6:22:00 PM	71522
Toluene	ND	0.049	mg/Kg	1	11/18/2022 6:22:00 PM	71522
Ethylbenzene	ND	0.049	mg/Kg	1	11/18/2022 6:22:00 PM	71522
Xylenes, Total	ND	0.099	mg/Kg	1	11/18/2022 6:22:00 PM	71522
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	11/18/2022 6:22:00 PM	71522

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH7A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:20:00 AM

 Lab ID:
 2211799-005
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	1600	60	mg/Kg	20	11/19/2022 3:06:56 PM	71602
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/18/2022 4:14:08 PM	71566
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/18/2022 4:14:08 PM	71566
Surr: DNOP	98.8	21-129	%Rec	1	11/18/2022 4:14:08 PM	71566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/18/2022 6:42:00 PM	71522
Surr: BFB	103	37.7-212	%Rec	1	11/18/2022 6:42:00 PM	71522
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	11/18/2022 6:42:00 PM	71522
Toluene	ND	0.048	mg/Kg	1	11/18/2022 6:42:00 PM	71522
Ethylbenzene	ND	0.048	mg/Kg	1	11/18/2022 6:42:00 PM	71522
Xylenes, Total	ND	0.096	mg/Kg	1	11/18/2022 6:42:00 PM	71522
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/18/2022 6:42:00 PM	71522

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH8A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:25:00 AM

 Lab ID:
 2211799-006
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	1000	60	mg/Kg	20	11/19/2022 3:19:20 PM	71602
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	11/18/2022 4:24:43 PM	71566
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	11/18/2022 4:24:43 PM	71566
Surr: DNOP	117	21-129	%Rec	1	11/18/2022 4:24:43 PM	71566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/18/2022 7:02:00 PM	71522
Surr: BFB	103	37.7-212	%Rec	1	11/18/2022 7:02:00 PM	71522
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.023	mg/Kg	1	11/18/2022 7:02:00 PM	71522
Toluene	ND	0.046	mg/Kg	1	11/18/2022 7:02:00 PM	71522
Ethylbenzene	ND	0.046	mg/Kg	1	11/18/2022 7:02:00 PM	71522
Xylenes, Total	ND	0.093	mg/Kg	1	11/18/2022 7:02:00 PM	71522
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	11/18/2022 7:02:00 PM	71522

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH9A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:30:00 AM

 Lab ID:
 2211799-007
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JTT
Chloride	1600	60		mg/Kg	20	11/19/2022 3:31:45 PM	71602
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	11/18/2022 4:35:17 PM	71566
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/18/2022 4:35:17 PM	71566
Surr: DNOP	114	21-129		%Rec	1	11/18/2022 4:35:17 PM	71566
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/18/2022 7:21:00 PM	71522
Surr: BFB	107	37.7-212		%Rec	1	11/18/2022 7:21:00 PM	71522
EPA METHOD 8021B: VOLATILES						Analyst	CCM
Benzene	ND	0.025		mg/Kg	1	11/18/2022 7:21:00 PM	71522
Toluene	ND	0.050		mg/Kg	1	11/18/2022 7:21:00 PM	71522
Ethylbenzene	ND	0.050		mg/Kg	1	11/18/2022 7:21:00 PM	71522
Xylenes, Total	ND	0.10		mg/Kg	1	11/18/2022 7:21:00 PM	71522
Surr: 4-Bromofluorobenzene	130	70-130	S	%Rec	1	11/18/2022 7:21:00 PM	71522

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

orting Limit Page 7 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH10A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:35:00 AM

 Lab ID:
 2211799-008
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	1500	59	mg/Kg	20	11/19/2022 3:44:09 PM	71602
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/18/2022 4:45:49 PM	71566
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/18/2022 4:45:49 PM	71566
Surr: DNOP	118	21-129	%Rec	1	11/18/2022 4:45:49 PM	71566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/18/2022 7:41:00 PM	71522
Surr: BFB	105	37.7-212	%Rec	1	11/18/2022 7:41:00 PM	71522
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	11/18/2022 7:41:00 PM	71522
Toluene	ND	0.050	mg/Kg	1	11/18/2022 7:41:00 PM	71522
Ethylbenzene	ND	0.050	mg/Kg	1	11/18/2022 7:41:00 PM	71522
Xylenes, Total	ND	0.099	mg/Kg	1	11/18/2022 7:41:00 PM	71522
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	11/18/2022 7:41:00 PM	71522

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

orting Limit Page 8 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH11A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:40:00 AM

 Lab ID:
 2211799-009
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	1600	61	mg/Kg	20	11/21/2022 11:46:50 AM 71616
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/17/2022 1:25:52 PM 71554
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/17/2022 1:25:52 PM 71554
Surr: DNOP	102	21-129	%Rec	1	11/17/2022 1:25:52 PM 71554
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/18/2022 9:40:00 PM 71544
Surr: BFB	105	37.7-212	%Rec	1	11/18/2022 9:40:00 PM 71544
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/18/2022 9:40:00 PM 71544
Toluene	ND	0.048	mg/Kg	1	11/18/2022 9:40:00 PM 71544
Ethylbenzene	ND	0.048	mg/Kg	1	11/18/2022 9:40:00 PM 71544
Xylenes, Total	ND	0.095	mg/Kg	1	11/18/2022 9:40:00 PM 71544
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	11/18/2022 9:40:00 PM 71544

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH12A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:45:00 AM

 Lab ID:
 2211799-010
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	2200	150	mg/Kg	50	11/22/2022 2:29:10 PM 71616
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/17/2022 1:58:04 PM 71554
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/17/2022 1:58:04 PM 71554
Surr: DNOP	99.2	21-129	%Rec	1	11/17/2022 1:58:04 PM 71554
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/18/2022 10:39:00 PM 71544
Surr: BFB	104	37.7-212	%Rec	1	11/18/2022 10:39:00 PM 71544
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	11/18/2022 10:39:00 PM 71544
Toluene	ND	0.047	mg/Kg	1	11/18/2022 10:39:00 PM 71544
Ethylbenzene	ND	0.047	mg/Kg	1	11/18/2022 10:39:00 PM 71544
Xylenes, Total	ND	0.093	mg/Kg	1	11/18/2022 10:39:00 PM 71544
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	11/18/2022 10:39:00 PM 71544

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH15A

Project: Hunt APO State 1 **Collection Date:** 11/11/2022 11:50:00 AM Lab ID: 2211799-011 Matrix: SOIL Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	910	60		mg/Kg	20	11/21/2022 1:00:53 PM 71616
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/17/2022 2:08:45 PM 71554
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/17/2022 2:08:45 PM 71554
Surr: DNOP	138	21-129	S	%Rec	1	11/17/2022 2:08:45 PM 71554
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/18/2022 11:38:00 PM 71544
Surr: BFB	98.8	37.7-212		%Rec	1	11/18/2022 11:38:00 PM 71544
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/18/2022 11:38:00 PM 71544
Toluene	ND	0.049		mg/Kg	1	11/18/2022 11:38:00 PM 71544
Ethylbenzene	ND	0.049		mg/Kg	1	11/18/2022 11:38:00 PM 71544
Xylenes, Total	ND	0.098		mg/Kg	1	11/18/2022 11:38:00 PM 71544
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	11/18/2022 11:38:00 PM 71544

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
- Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

Page 11 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH16A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 11:55:00 AM

 Lab ID:
 2211799-012
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	900	60	mg/Kg	20	11/21/2022 1:13:13 PM 71616
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/17/2022 2:19:27 PM 71554
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/17/2022 2:19:27 PM 71554
Surr: DNOP	110	21-129	%Rec	1	11/17/2022 2:19:27 PM 71554
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/18/2022 11:58:00 PM 71544
Surr: BFB	101	37.7-212	%Rec	1	11/18/2022 11:58:00 PM 71544
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	11/18/2022 11:58:00 PM 71544
Toluene	ND	0.046	mg/Kg	1	11/18/2022 11:58:00 PM 71544
Ethylbenzene	ND	0.046	mg/Kg	1	11/18/2022 11:58:00 PM 71544
Xylenes, Total	ND	0.093	mg/Kg	1	11/18/2022 11:58:00 PM 71544
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/18/2022 11:58:00 PM 71544

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH24A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 12:00:00 PM

 Lab ID:
 2211799-013
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	870	60	mg/Kg	20	11/21/2022 1:25:34 PM 71616
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/17/2022 2:30:09 PM 71554
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/17/2022 2:30:09 PM 71554
Surr: DNOP	101	21-129	%Rec	1	11/17/2022 2:30:09 PM 71554
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/19/2022 12:18:00 AM 71544
Surr: BFB	109	37.7-212	%Rec	1	11/19/2022 12:18:00 AM 71544
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/19/2022 12:18:00 AM 71544
Toluene	ND	0.049	mg/Kg	1	11/19/2022 12:18:00 AM 71544
Ethylbenzene	ND	0.049	mg/Kg	1	11/19/2022 12:18:00 AM 71544
Xylenes, Total	ND	0.098	mg/Kg	1	11/19/2022 12:18:00 AM 71544
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	11/19/2022 12:18:00 AM 71544

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

pie pH Not in Range
Opting Limit Page 13 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW5A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 12:05:00 PM

 Lab ID:
 2211799-014
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	1700	60	mg/Kg	20	11/21/2022 1:37:56 PM 71616
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/17/2022 2:40:49 PM 71554
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/17/2022 2:40:49 PM 71554
Surr: DNOP	107	21-129	%Rec	1	11/17/2022 2:40:49 PM 71554
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/19/2022 12:38:00 AM 71544
Surr: BFB	101	37.7-212	%Rec	1	11/19/2022 12:38:00 AM 71544
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/19/2022 12:38:00 AM 71544
Toluene	ND	0.047	mg/Kg	1	11/19/2022 12:38:00 AM 71544
Ethylbenzene	ND	0.047	mg/Kg	1	11/19/2022 12:38:00 AM 71544
Xylenes, Total	ND	0.095	mg/Kg	1	11/19/2022 12:38:00 AM 71544
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	11/19/2022 12:38:00 AM 71544

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW7A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 12:10:00 PM

 Lab ID:
 2211799-015
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	430	60	mg/Kg	20	11/21/2022 1:50:16 PM 71616
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst: DGH	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/17/2022 2:51:31 PM 71554
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/17/2022 2:51:31 PM 71554
Surr: DNOP	102	21-129	%Rec	1	11/17/2022 2:51:31 PM 71554
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/19/2022 12:57:00 AM 71544
Surr: BFB	106	37.7-212	%Rec	1	11/19/2022 12:57:00 AM 71544
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	11/19/2022 12:57:00 AM 71544
Toluene	ND	0.047	mg/Kg	1	11/19/2022 12:57:00 AM 71544
Ethylbenzene	ND	0.047	mg/Kg	1	11/19/2022 12:57:00 AM 71544
Xylenes, Total	ND	0.093	mg/Kg	1	11/19/2022 12:57:00 AM 71544
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	11/19/2022 12:57:00 AM 71544

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW8A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 12:15:00 PM

 Lab ID:
 2211799-016
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	450	60	mg/Kg	20	11/21/2022 2:02:36 PM	71616
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/17/2022 3:02:10 PM	71554
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/17/2022 3:02:10 PM	71554
Surr: DNOP	121	21-129	%Rec	1	11/17/2022 3:02:10 PM	71554
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/19/2022 1:17:00 AM	71544
Surr: BFB	110	37.7-212	%Rec	1	11/19/2022 1:17:00 AM	71544
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	11/19/2022 1:17:00 AM	71544
Toluene	ND	0.047	mg/Kg	1	11/19/2022 1:17:00 AM	71544
Ethylbenzene	ND	0.047	mg/Kg	1	11/19/2022 1:17:00 AM	71544
Xylenes, Total	ND	0.094	mg/Kg	1	11/19/2022 1:17:00 AM	71544
Surr: 4-Bromofluorobenzene	130	70-130	%Rec	1	11/19/2022 1:17:00 AM	71544

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 24

Date Reported: 11/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW9A

 Project:
 Hunt APO State 1
 Collection Date: 11/11/2022 12:20:00 PM

 Lab ID:
 2211799-017
 Matrix: SOIL
 Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JTT
Chloride	500	60	mg/Kg	20	11/21/2022 2:14:57 PM	71616
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/17/2022 3:23:16 PM	71554
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/17/2022 3:23:16 PM	71554
Surr: DNOP	102	21-129	%Rec	1	11/17/2022 3:23:16 PM	71554
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/19/2022 1:37:00 AM	71544
Surr: BFB	108	37.7-212	%Rec	1	11/19/2022 1:37:00 AM	71544
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.023	mg/Kg	1	11/19/2022 1:37:00 AM	71544
Toluene	ND	0.046	mg/Kg	1	11/19/2022 1:37:00 AM	71544
Ethylbenzene	ND	0.046	mg/Kg	1	11/19/2022 1:37:00 AM	71544
Xylenes, Total	ND	0.093	mg/Kg	1	11/19/2022 1:37:00 AM	71544
Surr: 4-Bromofluorobenzene	130	70-130	%Rec	1	11/19/2022 1:37:00 AM	71544

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211799**

30-Nov-22

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: MB-71602 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 71602 RunNo: 92733

Prep Date: 11/18/2022 Analysis Date: 11/19/2022 SeqNo: 3337377 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-71602 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 71602 RunNo: 92733

Prep Date: 11/18/2022 Analysis Date: 11/19/2022 SeqNo: 3337378 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.4 90 110

Sample ID: LCS-71616 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 71616 RunNo: 92751

Prep Date: 11/21/2022 Analysis Date: 11/21/2022 SeqNo: 3338145 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.2 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211799**

30-Nov-22

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: 2211799-009AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: BH11A	Batch	ID: 71	554	F	RunNo: 9	2653				
Prep Date: 11/16/2022	Analysis D	ate: 11	/17/2022	8	SeqNo: 3	334646	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	49.50	0	102	36.1	154			
Surr: DNOP	5.4		4.950		108	21	129			
Sample ID: 2211799-009AMS	D SampT	уре: МS	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: BH11A	Batch	ID: 71	554	F	RunNo: 9	2653				
Prep Date: 11/16/2022	Analysis D	ate: 11	/17/2022	8	SeqNo: 3	334647	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	14	47.44	0	120	36.1	154	12.4	33.9	
Surr: DNOP	6.0		4.744		127	21	129	0	0	
Sample ID: LCS-71554	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 71	554	F	RunNo: 92	2653				
Prep Date: 11/16/2022	Analysis D	ate: 11	/17/2022	8	SeqNo: 3	334669	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	15	50.00	0	109	64.4	127			
Surr: DNOP	5.4		5.000		108	21	129			
Sample ID: MB-71554	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 71	554	F	RunNo: 9	2653				
Prep Date: 11/16/2022	Analysis D	ate: 11	/17/2022	S	SeqNo: 3	334671	Units: mg/K	(g		

Ciletit ID. FB3	Datti	1 1D. 11.	JJ4	r	Cullino. 3	2033				
Prep Date: 11/16/2022	Analysis D	Analysis Date: 11/17/2022			SeqNo: 3	334671	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.7	21	129			
Sample ID: 1 CS-71566	SampT	vne: LC	:s	Tes	tCode: FI	PA Method	8015M/D: Dia	sel Range	Organics	

Sample ID: LCS-/1566	Sampi	ype: LC	5	res	Code: El	A Method	8015NI/D: DIE			
Client ID: LCSS	Batch	ID: 71	566	R	RunNo: 9	2689				
Prep Date: 11/17/2022	Analysis D	ate: 11	/18/2022	S	SeqNo: 3	337331	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.8	64.4	127			
Surr: DNOP	5.3		5.000		105	21	129			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211799**

30-Nov-22

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: MB-71566 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 71566 RunNo: 92689

Prep Date: 11/17/2022 Analysis Date: 11/18/2022 SeqNo: 3337334 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 15

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 16 10.00 156 21 129 S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211799** *30-Nov-22*

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: Ics-71522	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: 71	522	F	RunNo: 92710					
Prep Date: 11/15/2022	Analysis D	ate: 11	/18/2022	5	SeqNo: 3	335910	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2400		1000		236	37.7	212			S
Sample ID: mb-71522	SampT	уре: МЕ	BLK	Tes	tCode: EI	PA Method	8015D: Gaso	line Rang	e	
Sample ID: mb-71522 Client ID: PBS	•	ype: ME			tCode: El		8015D: Gaso	line Rang	e	
•	•	n ID: 71 !	522	F		2710	8015D: Gaso	J	е	
Client ID: PBS	Batch	n ID: 71 !	522 1/18/2022	F	RunNo: 9	2710		J	e RPDLimit	Qual
Client ID: PBS Prep Date: 11/15/2022	Batch Analysis D	n ID: 71 9 Date: 11	522 1/18/2022	F	RunNo: 9: SeqNo: 3:	2710 335911	Units: mg/K	(g		Qual

Sample ID: Ics-71544 SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: 71	544	F	RunNo: 9	2710				
Prep Date: 11/16/2022	S	SeqNo: 3	335934	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	2300		1000		233	37.7	212			S

Sample ID: mb-/1544	Sampi	ype: IVIE	LK TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	ID: 71	544	R	RunNo: 92	2710					
Prep Date: 11/16/2022	Analysis D	ate: 11	/18/2022	S	SeqNo: 3	335935	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BEB	1000		1000		103	37.7	212				

Sample ID: 2211799-009ams	SampT	Гуре: М	3	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH11A	Batcl	h ID: 71	544	F	RunNo: 92710						
Prep Date: 11/16/2022	Analysis Date: 11/18/2022			8	SeqNo: 3	335937	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	4.7	23.63	0	93.3	70	130				
Surr: BFB	2100		945.2		226	37.7	212			S	

Sample ID: 2211799-009amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range
Client ID: BH11A	Batch ID: 71544	RunNo: 92710
Prep Date: 11/16/2022	Analysis Date: 11/18/2022	SeqNo: 3335938 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211799**

30-Nov-22

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: 2211799-009amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH11A Batch ID: 71544 RunNo: 92710

Prep Date: 11/16/2022 Analysis Date: 11/18/2022 SeqNo: 3335938 Units: mg/Kg

11710/2022	, wayono D	u.o. 11	710/2022	_	, oq. 10. 0 0	,0000	Ormo: mg/m	9			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	21	4.7	23.47	0	91.1	70	130	3.00	20		
Surr: BFB	2100		939.0		223	37.7	212	0	0	S	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211799**

30-Nov-22

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: Ics-71522	Ics-71522 SampType: LCS				tCode: EF	iles				
Client ID: LCSS	Batcl	h ID: 71	522	F	RunNo: 92	2710				
Prep Date: 11/15/2022	Analysis D	Date: 11	/18/2022	8	SeqNo: 3	336222	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	122	80	120			S
Toluene	1.3	0.050	1.000	0	125	80	120			S
Ethylbenzene	1.3	0.050	1.000	0	126	80	120			S
Xylenes, Total	3.8 0.10 3.000		0	126	80	120			S	
Surr: 4-Bromofluorobenzene	1.3 1.000				131	70	130			S

Sample ID: mb-71522	BLK	TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	ID: PBS Batch ID: 71522					RunNo: 92710						
Prep Date: 11/15/2022	Analysis D	ate: 11	/18/2022	8	SeqNo: 3	336223	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	1.3		1.000		130	70	130					

Sample ID: Ics-71544	Sampl	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: 71	544	F	RunNo: 92	2710				
Prep Date: 11/16/2022	Analysis D	Date: 11	/18/2022	S	SeqNo: 3	336246	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	124	80	120			S
Toluene	1.3	0.050	1.000	0	125	80	120			S
Ethylbenzene	1.3	0.050	1.000	0	127	80	120			S
Xylenes, Total	3.8	0.10	3.000	0	126	80	120			S
Surr: 4-Bromofluorobenzene	1.3		1.000		127	70	130			

Sample ID: mb-71544	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 71	544	R	RunNo: 9	2710				
Prep Date: 11/16/2022	Analysis D	ate: 11	/18/2022	S	SeqNo: 3	336247	Units: mg/K	g		
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	1.2		1.000		123	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211799**

30-Nov-22

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: 2211799-010ams	SampT	уре: М S	•	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: BH12A	Batcl	h ID: 71	544	F	RunNo: 92	2710				
Prep Date: 11/16/2022	Analysis D	Date: 11	/18/2022	8	SeqNo: 3	336250	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.023	0.9217	0	125	68.8	120			S
Toluene	1.2	0.046	0.9217	0	128	73.6	124			S
Ethylbenzene	1.2	0.046	0.9217	0	128	72.7	129			
Xylenes, Total	3.5	0.092	2.765	0	128	75.7	126			S
Surr: 4-Bromofluorobenzene	1.2		0.9217		129	70	130			

Sample ID: 2211799-010amsd	SampT	уре: МЅ	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH12A	Batcl	n ID: 71	544	F	RunNo: 9	2710				
Prep Date: 11/16/2022	Analysis D)ate: 11	/18/2022	\$	SeqNo: 3	336251	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9488	0	120	68.8	120	0.923	20	
Toluene	1.2	0.047	0.9488	0	121	73.6	124	2.29	20	
Ethylbenzene	1.2	0.047	0.9488	0	125	72.7	129	0.214	20	
Xylenes, Total	3.5	0.095	2.846	0	124	75.7	126	0.603	20	
Surr: 4-Bromofluorobenzene	1.2		0.9488		126	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 24

Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 6/30/2023 10:36:43 AM

			,	Vebsite: ww	v.hallenvironmeni	lal.com		
Client Name: (GHD Midland		Work	Order Num	ber: 2211799		RcptNo	: 1
Received By:	Juan Rojas		11/15/20	022 7:30:00) AM	Guarage Sal		
Completed By:	Sean Livings	ston	11/15/20	022 8:25:03	3 AM	Sal	not	
Reviewed By: 人	PLA	11-15.	28				V	
hain of Custo	ody							
. Is Chain of Cus	stody complete	e?			Yes 🗹	No 🗌	Not Present	
How was the sa	ample delivere	ed?			Courier			
<u>Log In</u> . Was an attemp	t made to coo	ol the sample	es?		Yes 🗹	No 🗌	na 🗆	
		·		- 6.0%0		No 🗌	NA 🗀	
. Were all sample	es received at	. a temperat	uieot>0°C1	0 6.U°C	Yes 🗹	140	na 🗌	
. Sample(s) in pr	oper containe	er(s)?			Yes 🗹	No 🗌		
S Sufficient samp	le volume for	indicated te	st(s)?		Yes 🗹	No 🗌		
, Are samples (ex	cept VOA an	d ONG) pro	perly preserve	ed?	Yes 🗹	No 📙		
3. Was preservativ	e added to be	ottles?			Yes 🗌	No 🗹	NA 🗆	
. Received at lea	st 1 vial with h	neadspace <	<1/4" for AQ V	OA?	Yes 🗌	No 🗆	NA 🗹	
0. Were any samp	ole containers	received br	oken?		Yes	No 🗹	# of preserved	
1. Does paperwork	k match bottle	labels?			Yes 🗹	No 🗆	bottles checked for pH:	
(Note discrepan		-					(<2 o Adjusted?	r >12 unless noted)
2. Are matrices co			·		Yes ☑ Yes ☑	No □ No □	/ tajuoteu:	
3 _. Is it clear what a 4. Were all holding			f		res ⊻ Yes ⊻	No 🗆	Checked by:	JN 11/15/5
(If no, notify cus					ies 🛂			<u> </u>
pecial Handliı	ng (if appli	cable)			_			
5. Was client noti	fied of all disc	repancies w	rith this order?		Yes 🗌	No 🗆	NA 🗹	-
Person N				Date	10			
By Whon	SECTION .			Via:	eMail [Phone Fax	In Person	
Regardin	2000					· · · · · · · · · · · · · · · · · · ·		
	structions:		-					
6. Additional rem	arks:							
7. Cooler Inform	- /	0 - 1"			5		ā	
Cooler No	Temp °C 0.3 €	Condition Good	Seal Intact	Seal No	Seal Date	Signed By	rise (-)-okeans	
-	10.0	200a	3	1			51 809	

HALL FNVTRONMFNTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	*OS	O¢' a	OA 2008	G \ O 808\2 (1:40 S8 10 ON	GE ides ides ido ido ido ido ido ido ido ido ido ido	15D0 ethocethocethocethocethocethocethocethoc	PH:80- 181 Pe 180 (M 190 (V 190 (S 190 (V	111 882 (G) 197 (A) 197 (B)	X nd 30												Remarks: Please email James Rennedy Bearing	1.1.	Bill to James Kengedy, 606	Released Persman Angring は Manager Manager of the analytical report. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	Standard & Rush 5 oldung	ie i	サマイナナン シェナー	Project #: 177 26		Project Manager: Nate Rece			Sampler: C.am (M.C. C.	Si	(including CF): 10 3 0 = 0 3 (°C)	Preservative HEAL No.			700	200	P00	200	300	400	803	750	DIO) N 011	20 //	(r	Via: Date Time	100000 11 15/22 3130 B	contracted to other accredited laboratories. This serves as notice of this po
Chain-of-Custody Record	Client: SHD		Wailing Address: $224W_{ain}St$	A Messe, NM 88216	Phone #: (505) 377-4218	email or Fax#: nath, refle @ ghd, con	:aĝe:	☐ Standard ☐ Level 4 (Full Validation)	Accreditation: Az Compliance NEI AC Other	woe)			Matrix Sample Name	1111 1100 Soil BHZA	1 1105 1 BH3A	APH 8 1 011	1 1 1 BH SA	PC H8 10211	H8H81 S211	1130 BH94	1135 BHOA	11140 BH 11A	1145 BH(24	YSI H8 / 311	V 1195 V B1416A	Date: Time: Relinquished by:	Time: Relinquish	4/14/22 (900) Chaming	Released nograms Angiversum was and the isting of may be subs

INTERNATIONAL INTERNATION	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Anal	³ OS	WS :8,8	DG ;	100s 111)	5048 504 3, 1	od Bylo NO NO Stall	estice Neth 8 Ma 1,18	PH:80 OB1 P CRA CRA CRA CRA CRA CRA CRA CRA CRA CRA	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				7				cls con rate receed	County 11 15227130 Bill to James Kendildy COC
	7		,			(1	208) s,8	3MT	H T	. 8E	EW O	\ X∃T			-	~ Z)		7130 Bill
9	sh 5 der	1. Lott	STATETA	27/hc		Nate Deece	į		-irosolant	S D	The state of the s	53-670.3	Ve HEAL NO	200	20	210	ماره	9 9				Date Time	7 2 2 2 7 11 1 V
d Time:	d CKush	101	#1	1177	7	ager: $V_{A'}$		のようなこと	Liam 6	Se, ∠E/		p(thotading cF) (Preservative	1 ype [CC				\	>		/	Via:	100 who
Turn-Around Time:	Standard	Project Name:	Fart	Project #:	1	Project Manager:	} }	- 1	Sampler: (On Ice:	# of Coolers:	Cooler Temp(tholuding of)	Container	1 ype and #				<i>></i> 2	}			Received by:	
Chain-of-Custody Record	Client: OHD		Mailing Address: $224W_{a/2}S_{t,a}$	4 May 100	(505) 27	-ax#:	.io	☐ Standard ☐ Level 4 (Full Validation)	Accreditation: Az Compliance	☐ NELAC ☐ Other	ЭD (Туре)			The limit is sample in the limit of the sample in the sam	128 SEA	1210 55074	1215 N SW 84	1220 3000				Date: Time: Relinquished by: [114 0@0 Can Fremont Fre	



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

December 22, 2022

Nate Reece GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086

FAX:

RE: Hunt APO State 1 OrderNo.: 2212A78

Dear Nate Reece:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/17/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 21, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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 **2212A78**Date Reported: **12/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW10

 Project:
 Hunt APO State 1
 Collection Date: 12/15/2022 12:00:00 PM

 Lab ID:
 2212A78-001
 Matrix: MEOH (SOIL)
 Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	470	60	mg/Kg	20	12/20/2022 3:19:09 AM	72198
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/20/2022 12:33:15 PM	1 72211
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/20/2022 12:33:15 PM	1 72211
Surr: DNOP	113	21-129	%Rec	1	12/20/2022 12:33:15 PM	1 72211
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	12/18/2022 9:07:54 PM	B93375
Surr: BFB	87.7	37.7-212	%Rec	1	12/18/2022 9:07:54 PM	B93375
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.016	mg/Kg	1	12/18/2022 9:07:54 PM	D93375
Toluene	ND	0.033	mg/Kg	1	12/18/2022 9:07:54 PM	D93375
Ethylbenzene	ND	0.033	mg/Kg	1	12/18/2022 9:07:54 PM	D93375
Xylenes, Total	ND	0.065	mg/Kg	1	12/18/2022 9:07:54 PM	D93375
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	12/18/2022 9:07:54 PM	D93375

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Analytical Report Lab Order 2212A78

Date Reported: 12/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH2B

 Project:
 Hunt APO State 1
 Collection Date: 12/15/2022 12:05:00 PM

 Lab ID:
 2212A78-002
 Matrix: MEOH (SOIL)
 Received Date: 12/17/2022 10:00:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 290 60 mg/Kg 20 12/20/2022 3:31:30 AM 72198 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 15 mg/Kg 12/20/2022 12:43:54 PM 72211 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 12/20/2022 12:43:54 PM 72211 Surr: DNOP 110 21-129 %Rec 12/20/2022 12:43:54 PM 72211 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/18/2022 10:17:49 PM B93375 2.7 mg/Kg Surr: BFB 86.9 %Rec 12/18/2022 10:17:49 PM B93375 37.7-212 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.013 12/18/2022 10:17:49 PM D93375 Benzene mg/Kg Toluene ND 0.027 mg/Kg 12/18/2022 10:17:49 PM D93375 Ethylbenzene ND 0.027 mg/Kg 1 12/18/2022 10:17:49 PM D93375 Xylenes, Total ND 0.054 mg/Kg 12/18/2022 10:17:49 PM D93375 Surr: 4-Bromofluorobenzene 70-130 87.5 %Rec 12/18/2022 10:17:49 PM D93375

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 8

Analytical Report Lab Order 2212A78

Date Reported: 12/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH26

 Project:
 Hunt APO State 1
 Collection Date: 12/15/2022 12:10:00 PM

 Lab ID:
 2212A78-003
 Matrix: MEOH (SOIL)
 Received Date: 12/17/2022 10:00:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 160 60 mg/Kg 20 12/20/2022 3:43:51 AM 72198 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 14 mg/Kg 12/20/2022 12:54:32 PM 72211 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 12/20/2022 12:54:32 PM 72211 Surr: DNOP 112 21-129 %Rec 12/20/2022 12:54:32 PM 72211 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/18/2022 11:27:34 PM B93375 3.7 mg/Kg Surr: BFB 86.7 %Rec 12/18/2022 11:27:34 PM B93375 37.7-212 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.019 12/18/2022 11:27:34 PM D93375 Benzene mg/Kg Toluene ND 0.037 mg/Kg 12/18/2022 11:27:34 PM D93375 Ethylbenzene ND 0.037 mg/Kg 1 12/18/2022 11:27:34 PM D93375 Xylenes, Total ND 0.075 mg/Kg 12/18/2022 11:27:34 PM D93375 Surr: 4-Bromofluorobenzene 70-130 87.9 %Rec 12/18/2022 11:27:34 PM D93375

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

Analytical Report Lab Order 2212A78

Date Reported: 12/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW11

Project: Hunt APO State 1 Collection Date: 12/15/2022 2:30:00 PM

Lab ID: 2212A78-004 **Matrix:** MEOH (SOIL) **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CAS
Chloride	530	60	mg/Kg	20	12/20/2022 3:56:12 AM	72198
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/20/2022 1:05:13 PM	72211
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/20/2022 1:05:13 PM	72211
Surr: DNOP	109	21-129	%Rec	1	12/20/2022 1:05:13 PM	72211
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	2.7	mg/Kg	1	12/18/2022 11:50:45 PM	Л B93375
Surr: BFB	83.5	37.7-212	%Rec	1	12/18/2022 11:50:45 PM	И B93375
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.014	mg/Kg	1	12/18/2022 11:50:45 PM	Л D93375
Toluene	ND	0.027	mg/Kg	1	12/18/2022 11:50:45 PM	Л D93375
Ethylbenzene	ND	0.027	mg/Kg	1	12/18/2022 11:50:45 PM	/I D93375
Xylenes, Total	ND	0.054	mg/Kg	1	12/18/2022 11:50:45 PM	/ D93375
Surr: 4-Bromofluorobenzene	84.9	70-130	%Rec	1	12/18/2022 11:50:45 PM	И D93375

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

2212A78 22-Dec-22

WO#:

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: MB-72198 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72198 RunNo: 93415

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3368975 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-72198 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72198 RunNo: 93415

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3368976 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.6 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

2212A78 22-Dec-22

WO#:

Client: GHD Midland
Project: Hunt APO State 1

Project:	Hunt APO	State 1									
Sample ID:	LCS-72211	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	1D: 72	211	F	RunNo: 93	3423				
Prep Date:	12/20/2022	Analysis D	ate: 12	2/20/2022	5	SeqNo: 33	369401	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	42	15	50.00	0	83.4	64.4	127			
Surr: DNOP		5.5		5.000		110	21	129			
Sample ID:	MB-72211	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	1D: 72	211	F	RunNo: 93	3423				
Prep Date:	12/20/2022	Analysis D	ate: 12	2/20/2022	9	SeqNo: 33	369403	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	15								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		107	21	129			
Sample ID:	2212A78-001AMS	SampT	ype: M \$	6	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	SW10	Batch	1D: 72	211	F	RunNo: 93	3423				
Prep Date:	12/20/2022	Analysis D	ate: 12	2/20/2022	(SeqNo: 33	369532	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	38	14	48.12	0	79.5	36.1	154			
Surr: DNOP		5.5		4.812		115	21	129			
Sample ID:	2212A78-001AMSD	SampT	ype: M \$	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	SW10	Batch	1D: 72	211	F	RunNo: 93	3423				
Prep Date:	12/20/2022	Analysis D	ate: 12	2/20/2022	5	SeqNo: 33	369533	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	41	14	48.08	0	84.8	36.1	154	6.44	33.9	

Qualifiers:

Surr: DNOP

- 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

5.6

4.808

B Analyte detected in the associated Method Blank

116

21

0

129

0

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

2212A78 22-Dec-22

WO#:

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: 2.5ug gro lcs-II

Sample ID: mb-II	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	ı	
Client ID: PBS	Batcl	n ID: B9 :	3375	F	RunNo: 93	3375				
Prep Date:	Analysis D	Date: 12	/18/2022	9	SeqNo: 33	867069	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.4	37.7	212			

1 33	•	-	_							
Client ID: LCSS	Batch	n ID: B9 :	3375	F	RunNo: 93	3375				
Prep Date:	Analysis D	Date: 12	/18/2022	5	SeqNo: 33	367070	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.2	72.3	137			
Surr: BFB	1800		1000		180	37.7	212			

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: 2212a78-001ams	SampT	уре: МЅ	;	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW10	Batch	Batch ID: B93375 RunNo: 93375								
Prep Date:	Analysis D)ate: 12	/18/2022	SeqNo: 3367076 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.3	16.36	0	94.3	70	130			
Surr: BFB	1200		654.5		181	37.7	212			

Sample ID: 2212a7	78-001amsd	SampT	ype: MS	SD .	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: SW10		Batch	n ID: B9 :	3375	F	RunNo: 93	3375				
Prep Date:		Analysis D)ate: 12	/18/2022	5	SeqNo: 33	367077	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	s (GRO)	16	3.3	16.36	0	95.2	70	130	0.971	20	
Surr: BFB		1200		654.5		183	37.7	212	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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212A78 22-Dec-22

Client: GHD Midland
Project: Hunt APO State 1

Sample ID: mb-II SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **D93375** RunNo: 93375 Prep Date: Analysis Date: 12/18/2022 SeqNo: 3367106 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.87 1.000 87.4 70 130

Sample ID: 100ng btex Ics-II	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les			
Client ID: LCSS	Bato	h ID: D9 :	3375	F	RunNo: 9	3375					
Prep Date:	Analysis I	Date: 12	/18/2022	9	SeqNo: 3	367107	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.025	1.000	0	90.4	80	120				
Toluene	0.91	0.050	1.000	0	91.4	80	120				
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120				
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120				
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130				

Sample ID: 2212a78-002ams	Samp	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: BH2B	Batc	h ID: D9 :	3375	F	RunNo: 93	3375				
Prep Date:	Analysis [Date: 12	/18/2022	5	SeqNo: 33	367113	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.49	0.013	0.5391	0	91.7	68.8	120			
Toluene	0.50	0.027	0.5391	0	93.2	73.6	124			
Ethylbenzene	0.50	0.027	0.5391	0	93.4	72.7	129			
Xylenes, Total	1.5	0.054	1.617	0.009973	91.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.48		0.5391		88.8	70	130			

Sample ID: 2212a78-002amsd	SampT	ype: MS	D	Tes	8021B: Volati	iles					
Client ID: BH2B	Batch	n ID: D9 3	3375	F	RunNo: 93	3375					
Prep Date:	Analysis D	ate: 12	/18/2022	5	SeqNo: 33	367114	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.49	0.013	0.5391	0	91.7	68.8	120	0.0327	20		
Toluene	0.49	0.027	0.5391	0	91.4	73.6	124	2.00	20		
Ethylbenzene	0.49	0.027	0.5391	0	91.7	72.7	129	1.88	20		
Xylenes, Total	1.5	0.054	1.617	0.009973	90.5	75.7	126	1.05	20		
Surr: 4-Bromofluorobenzene	0.47		0.5391		86.5	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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 8

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Released to Imaging: 6/30/2023 10:36:43 AM

Client Name:	GHD Midla	and	Work	Order Num	ber: 2212	2A78		RcptN	No: 1
Received By:	Desiree D	ominguez	12/17/2	022 10:00:0	00 AM		B		
Completed By: Reviewed By:	Desiree D	Oominguez		022 10:30:1 1/2C	19 AM		D		
Chain of Cus	<u>tody</u>								
1. Is Chain of Cu	ustody comp	lete?			Yes	~	No 🗌	Not Present]
2. How was the	sample deliv	vered?			Cour	<u>ier</u>			
Log In									
3. Was an attem	pt made to	cool the samp	es?		Yes	V	No 🗌	NA 🗆	l
4. Were all samp	oles received	l at a tempera	ture of >0° C	to 6.0°C	Yes	✓	No 🗌	NA 🗆	I
5. Sample(s) in p	oroper conta	iner(s)?			Yes	V	No 🗌		
6. Sufficient sam	ple volume f	or indicated te	st(s)?		Yes	V	No 🗌		
7. Are samples (except VOA	and ONG) pro	perly preserve	ed?	Yes	V	No 🗌		
8. Was preservat	tive added to	bottles?			Yes		No 🗹	NA 🗌	
9. Received at le	ast 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No 🗌	na 🗹	
10. Were any san	nple contain	ers received b	oken?		Yes		No 🗹	# of preserved	
11. Does paperwo (Note discrepa			ı		Yes	V	No 🗌	bottles checked for pH: (<2,	of >12 unless noted)
12. Are matrices c	orrectly iden	tified on Chair	of Custody?		Yes	V	No 🗌	Adjusted?	
13. Is it clear what	analyses w	ere requested	?		Yes	V	No 🗌		
14. Were all holdin (If no, notify cu	-				Yes	V	No 🗌	Checked by:	DAD 12/17/22
Special Handli	ing (if app	olicable)							
15. Was client no	tified of all d	iscrepancies v	vith this order?		Yes		No 🗆	NA 🗹	
Person	Notified:			Date:	<u></u>				
By Who	9			Via:	□ еМа	iil 🗀	Phone Fax	☐ In Person	
Regardi	-								
	structions:								
16. Additional rer	narks:								
17. Cooler Inform	-1	7							
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ite	Signed By		
1	0.4	Good							

Keleasea to thraging "6736/2023" 10:36:43 71 M



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

January 17, 2023

Nate Reece GHD

6121 Indian School Road, NE #200 Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: EOG Hunt APO State 1 OrderNo.: 2301463

Dear Nate Reece:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/12/2023 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

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-24B

 Project:
 EOG Hunt APO State 1
 Collection Date: 1/10/2023 12:42:00 PM

 Lab ID:
 2301463-001
 Matrix: SOIL
 Received Date: 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	490	60	mg/Kg	20	1/13/2023 2:12:15 PM	72612
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	: DGH
Diesel Range Organics (DRO)	ND	8.2	mg/Kg	1	1/13/2023 3:05:11 PM	72610
Motor Oil Range Organics (MRO)	ND	41	mg/Kg	1	1/13/2023 3:05:11 PM	72610
Surr: DNOP	100	69-147	%Rec	1	1/13/2023 3:05:11 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/13/2023 2:54:00 PM	72605
Surr: BFB	96.3	37.7-212	%Rec	1	1/13/2023 2:54:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	1/13/2023 2:54:00 PM	72605
Toluene	ND	0.048	mg/Kg	1	1/13/2023 2:54:00 PM	72605
Ethylbenzene	ND	0.048	mg/Kg	1	1/13/2023 2:54:00 PM	72605
Xylenes, Total	ND	0.097	mg/Kg	1	1/13/2023 2:54:00 PM	72605
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	1/13/2023 2:54:00 PM	72605

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-12B

Project: EOG Hunt APO State 1 **Collection Date:** 1/10/2023 12:14:00 PM Lab ID: 2301463-002 Matrix: SOIL **Received Date:** 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	590	60	mg/Kg	20	1/13/2023 2:24:39 PM	72612
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	: DGH
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	1/13/2023 3:26:28 PM	72610
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/13/2023 3:26:28 PM	72610
Surr: DNOP	103	69-147	%Rec	1	1/13/2023 3:26:28 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/13/2023 3:14:00 PM	72605
Surr: BFB	102	37.7-212	%Rec	1	1/13/2023 3:14:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	1/13/2023 3:14:00 PM	72605
Toluene	ND	0.049	mg/Kg	1	1/13/2023 3:14:00 PM	72605
Ethylbenzene	ND	0.049	mg/Kg	1	1/13/2023 3:14:00 PM	72605
Xylenes, Total	ND	0.097	mg/Kg	1	1/13/2023 3:14:00 PM	72605
Surr: 4-Bromofluorobenzene	120	70-130	%Rec	1	1/13/2023 3:14:00 PM	72605

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-11B

 Project:
 EOG Hunt APO State 1
 Collection Date: 1/10/2023 12:15:00 PM

 Lab ID:
 2301463-003
 Matrix: SOIL
 Received Date: 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	1000	59	mg/Kg	20	1/13/2023 2:37:03 PM	72612
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	1/13/2023 3:37:14 PM	72610
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/13/2023 3:37:14 PM	72610
Surr: DNOP	102	69-147	%Rec	1	1/13/2023 3:37:14 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/13/2023 3:33:00 PM	72605
Surr: BFB	108	37.7-212	%Rec	1	1/13/2023 3:33:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	1/13/2023 3:33:00 PM	72605
Toluene	ND	0.050	mg/Kg	1	1/13/2023 3:33:00 PM	72605
Ethylbenzene	ND	0.050	mg/Kg	1	1/13/2023 3:33:00 PM	72605
Xylenes, Total	ND	0.099	mg/Kg	1	1/13/2023 3:33:00 PM	72605
Surr: 4-Bromofluorobenzene	122	70-130	%Rec	1	1/13/2023 3:33:00 PM	72605

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 13

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-10B

 Project:
 EOG Hunt APO State 1
 Collection Date: 1/10/2023 12:16:00 PM

 Lab ID:
 2301463-004
 Matrix: SOIL
 Received Date: 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	960	60	mg/Kg	20	1/13/2023 2:49:28 PM	72612
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/13/2023 3:47:59 PM	72610
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/13/2023 3:47:59 PM	72610
Surr: DNOP	95.9	69-147	%Rec	1	1/13/2023 3:47:59 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/13/2023 3:53:00 PM	72605
Surr: BFB	106	37.7-212	%Rec	1	1/13/2023 3:53:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	1/13/2023 3:53:00 PM	72605
Toluene	ND	0.050	mg/Kg	1	1/13/2023 3:53:00 PM	72605
Ethylbenzene	ND	0.050	mg/Kg	1	1/13/2023 3:53:00 PM	72605
Xylenes, Total	ND	0.10	mg/Kg	1	1/13/2023 3:53:00 PM	72605
Surr: 4-Bromofluorobenzene	122	70-130	%Rec	1	1/13/2023 3:53:00 PM	72605

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 13

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-9B

 Project:
 EOG Hunt APO State 1
 Collection Date: 1/10/2023 12:18:00 PM

 Lab ID:
 2301463-005
 Matrix: SOIL
 Received Date: 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	310	60	mg/Kg	20	1/13/2023 6:57:34 PM	72624
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	1/13/2023 3:58:43 PM	72610
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/13/2023 3:58:43 PM	72610
Surr: DNOP	103	69-147	%Rec	1	1/13/2023 3:58:43 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/13/2023 4:12:00 PM	72605
Surr: BFB	100	37.7-212	%Rec	1	1/13/2023 4:12:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	1/13/2023 4:12:00 PM	72605
Toluene	ND	0.048	mg/Kg	1	1/13/2023 4:12:00 PM	72605
Ethylbenzene	ND	0.048	mg/Kg	1	1/13/2023 4:12:00 PM	72605
Xylenes, Total	ND	0.097	mg/Kg	1	1/13/2023 4:12:00 PM	72605
Surr: 4-Bromofluorobenzene	120	70-130	%Rec	1	1/13/2023 4:12:00 PM	72605

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 13

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-8B

 Project:
 EOG Hunt APO State 1
 Collection Date: 1/10/2023 12:19:00 PM

 Lab ID:
 2301463-006
 Matrix: SOIL
 Received Date: 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	1300	60	mg/Kg	20	1/13/2023 7:09:58 PM	72624
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	1/13/2023 4:09:28 PM	72610
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/13/2023 4:09:28 PM	72610
Surr: DNOP	109	69-147	%Rec	1	1/13/2023 4:09:28 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/13/2023 4:32:00 PM	72605
Surr: BFB	108	37.7-212	%Rec	1	1/13/2023 4:32:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	1/13/2023 4:32:00 PM	72605
Toluene	ND	0.049	mg/Kg	1	1/13/2023 4:32:00 PM	72605
Ethylbenzene	ND	0.049	mg/Kg	1	1/13/2023 4:32:00 PM	72605
Xylenes, Total	ND	0.098	mg/Kg	1	1/13/2023 4:32:00 PM	72605
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	1/13/2023 4:32:00 PM	72605

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 13

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-7B

 Project:
 EOG Hunt APO State 1
 Collection Date: 1/10/2023 12:20:00 PM

 Lab ID:
 2301463-007
 Matrix: SOIL
 Received Date: 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	610	61	mg/Kg	20	1/13/2023 7:22:23 PM	72624
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	1/13/2023 4:20:10 PM	72610
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/13/2023 4:20:10 PM	72610
Surr: DNOP	105	69-147	%Rec	1	1/13/2023 4:20:10 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/13/2023 4:52:00 PM	72605
Surr: BFB	104	37.7-212	%Rec	1	1/13/2023 4:52:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	1/13/2023 4:52:00 PM	72605
Toluene	ND	0.049	mg/Kg	1	1/13/2023 4:52:00 PM	72605
Ethylbenzene	ND	0.049	mg/Kg	1	1/13/2023 4:52:00 PM	72605
Xylenes, Total	ND	0.098	mg/Kg	1	1/13/2023 4:52:00 PM	72605
Surr: 4-Bromofluorobenzene	119	70-130	%Rec	1	1/13/2023 4:52:00 PM	72605

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 13

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-27

Project: EOG Hunt APO State 1 **Collection Date:** 1/10/2023 12:21:00 PM Lab ID: 2301463-008 Matrix: SOIL **Received Date:** 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	580	61	mg/Kg	20	1/13/2023 7:34:47 PM	72624
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	1/13/2023 4:31:02 PM	72610
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/13/2023 4:31:02 PM	72610
Surr: DNOP	102	69-147	%Rec	1	1/13/2023 4:31:02 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/13/2023 5:11:00 PM	72605
Surr: BFB	104	37.7-212	%Rec	1	1/13/2023 5:11:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	1/13/2023 5:11:00 PM	72605
Toluene	ND	0.048	mg/Kg	1	1/13/2023 5:11:00 PM	72605
Ethylbenzene	ND	0.048	mg/Kg	1	1/13/2023 5:11:00 PM	72605
Xylenes, Total	ND	0.096	mg/Kg	1	1/13/2023 5:11:00 PM	72605
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	1/13/2023 5:11:00 PM	72605

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
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 8 of 13

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-28

 Project:
 EOG Hunt APO State 1
 Collection Date: 1/10/2023 12:22:00 PM

 Lab ID:
 2301463-009
 Matrix: SOIL
 Received Date: 1/12/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	760	60	mg/Kg	20	1/13/2023 7:47:11 PM	72624
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	1/13/2023 4:44:02 PM	72610
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/13/2023 4:44:02 PM	72610
Surr: DNOP	103	69-147	%Rec	1	1/13/2023 4:44:02 PM	72610
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/13/2023 5:31:00 PM	72605
Surr: BFB	106	37.7-212	%Rec	1	1/13/2023 5:31:00 PM	72605
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	1/13/2023 5:31:00 PM	72605
Toluene	ND	0.050	mg/Kg	1	1/13/2023 5:31:00 PM	72605
Ethylbenzene	ND	0.050	mg/Kg	1	1/13/2023 5:31:00 PM	72605
Xylenes, Total	ND	0.10	mg/Kg	1	1/13/2023 5:31:00 PM	72605
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	1/13/2023 5:31:00 PM	72605

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301463**

17-Jan-23

Client: GHD

Project: EOG Hunt APO State 1

Sample ID: MB-72612 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72612 RunNo: 93954

Prep Date: 1/13/2023 Analysis Date: 1/13/2023 SeqNo: 3392167 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-72612 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72612 RunNo: 93954

Prep Date: 1/13/2023 Analysis Date: 1/13/2023 SeqNo: 3392168 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.1 90 110

Sample ID: MB-72624 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72624 RunNo: 93954

Prep Date: 1/13/2023 Analysis Date: 1/13/2023 SeqNo: 3392199 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-72624 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72624 RunNo: 93954

Prep Date: 1/13/2023 Analysis Date: 1/13/2023 SeqNo: 3392200 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.4 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301463 17-Jan-23

Client: GHD

Project: EOG Hunt APO State 1

Sample ID: LCS-72610 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 72610 RunNo: 93948 Units: mg/Kg Prep Date: 1/13/2023 Analysis Date: 1/13/2023 SeqNo: 3392044 PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 40 10 50.00 0 79.8 61.9 130

Surr: DNOP 5.3 5.000 107 69 147 Sample ID: MB-72610 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 72610 RunNo: 93948

Prep Date: Analysis Date: 1/13/2023 1/13/2023 SeqNo: 3392046 Units: mg/Kg

LowLimit Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 107 69 147

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 standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 11 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301463 17-Jan-23

Client: GHD

Project: EOG Hunt APO State 1

Sample ID: Ics-72605 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 72605 RunNo: 93931 Units: mg/Kg Prep Date: 1/12/2023 Analysis Date: 1/13/2023 SeqNo: 3391419

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137 Surr: BFB 2300 1000 228 37.7 212 S

Sample ID: mb-72605 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72605 RunNo: 93931

Prep Date: Analysis Date: 1/13/2023 SeqNo: 3391577 1/12/2023 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 103 37.7 212

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 standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 12 of 13

Hall Environmental Analysis Laboratory, Inc.

2301463 17-Jan-23

WO#:

Client: GHD

Project: EOG Hunt APO State 1

Sample ID: Ics-72605	Samp	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 72 6	605	F	RunNo: 93	3931				
Prep Date: 1/12/2023	Analysis [Date: 1/	13/2023	9	SeqNo: 33	No: 3391420 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	114	80	120			
Toluene	1.2	0.050	1.000	0	116	80	120			
Ethylbenzene	1.2	0.050	1.000	0	115	80	120			
Xylenes, Total	3.5	0.10	3.000	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	70	130			

Sample ID: mb-72605	Samp ¹	Гуре: МЕ	pe: MBLK TestCode: EPA Method 80			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 72605			RunNo: 93931								
Prep Date: 1/12/2023	Analysis [Date: 1/	13/2023	\$	SeqNo: 3	391578	578 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	1.2		1.000		122	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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 13



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Released to Imaging: 6/30/2023 10:36:43 AM

		website. www	v.hallenvironmental			
Client Name:	GHD	Work Order Num	ber: 2301463		RcptNo: 1	· · · · · · · · · · · · · · · · · · ·
Received By:	Tracy Casarrubias	1/12/2023 7:35:00	AM			
Completed By:	Tracy Casarrubias	1/12/2023 8:35:54	AM			
Reviewed By:	Jn.1/12/23					
Chain of Cus	<u>tody</u>					
1. Is Chain of Co	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In 3. Was an attern	npt made to cool the sample	s?	Yes 🗹	No 🗌	na 🗆	
4. Were all samp	oles received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	ple volume for indicated tes	st(s)?	Yes 🗹	No 🗆		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at le	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any san	nple containers received bro	oken?	Yes	No 🗹	# of preserved bottles checked	
	ork match bottle labels? ancies on chain of custody)		Yes 🗹	No 🗆	for pH: (<2 or >12	unless noted)
12. Are matrices o	correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?	
	t analyses were requested?		Yes 🗹	No 📙	NOC.	1.0.0
	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 📙	Checked by: XY()	11.12.2
Special Handl	ing (if applicable)					
15. Was client no	tified of all discrepancies w	th this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date				
By Who	om:	Via:	eMail P	hone 🗌 Fax	n Person	
Regardi	ing:					
	nstructions:					
16. Additional rer	marks: Woter ho	s infiltrate	ed samp	is oct	,007 - KPU	1.12.2
17. <u>Cooler Infor</u>		\$ ·				
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
1	4.3 Good	Yes		477		

\sim	
ೲ	
00	
-	
0,	
\sim	
6	
3	
0	
90	
8	
~	
-	

ANALYSIS LABORATORY HALL ENVIRONMENTAL

A Rush 48 Hour

Turn-Around Time:

Receive Chaffi-61-Clistddy Record

Client: GHD

□ Standard **スRush** りと子びんの Project Name: EOG Hunt APO State #1

Project #:11224665

Mailing Address: 6121 Indian School Rd. NE St. 200

City, State, Zip: Albuquerque, NM 87110

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107 **Analysis Request**

Phone ‡	#: (281);	Phone #: (281)386-7158								H	A	alysi	Analysis Request	nest			
email o	r Fax#: r	nate.reect	email or Fax#: nate.reece@ghd.com	Project Manager:		Nate Reece/ JT Murry	(1		-			₽O		(11			
QA/QC F	QA/QC Package:			,					s,g	SN		S '7(pse			
☐ Standard	dard		□ Level 4 (Full Validation)			103	?) S,		ьс	IIS0				A\tr			
Accreditation:	tation:	□ Az Cc	☐ Az Compliance	Sampler: Daniel Sparks	iel Sparks		[MB					10 ⁵ '		ıəsə			
□ NELAC	AC	□ Other		On Ice:	₩ Yes	No 🗆	L /					u "	(A(14)			
☐ EDD (Type)	(Type)			# of Coolers:	_	1887	38.							w			
				Cooler Temp(including CF):	ncluding CF): U	2+01=4.3	TM							oìile			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	\ X∃T8	08:H Ч Т	8081 Pe	d sHA9	8 ARJA	Cl, F, B 8260 (V	8) 0728	DO lstoT			
1/10/2023	12:42	S	BH-24B	4 Oz: 1	N/A	100	×	×			_×						
1/10/2023	12:14	S	BH-12B	4 Oz: 1	N/A	200	×	×			×						
1/10/2023	12:15	S	BH-11B	4 Oz: 1	N/A	500	×	×			×						
1/10/2023	12:16	တ	BH-10B	4 Oz: 1	N/A	H00	×	×			×						
1/10/2023	12:17	တ	BH-9B	4 Oz: 1	N/A	\$00	×	×			×						
1/10/2023	12:19	S	BH-8B	4 Oz: 1	N/A	200	×	×			_×						
1/10/2023	12:20	S	BH-7B	4 Oz: 1	N/A	£00	×	×			×						
1/10/2023	12:21	တ	BH-27	4 Oz: 1	N/A	900	×	×			×						
1/10/2023	12:22	S	BH-28	4 Oz: 1	N/A	600	×	×			×						
							_									+	
							-				+					-	
Date:	Time:	Relinquished by:	hed by:	Received by:	Via:	Date Time	L			Rem	arks:	Pleas	e em	Remarks: Please email results to:	Ilts to:		
1/11/23	/11/23 to : 00	0	Scouting.	Column	, 2	000 50 111		jame	s_ken)edy(geographial daniel	enar	ces.co	Deogresources.com; jt.m	james_kennedy@eogresources.com; jt.murrey@ghd.com;	®ghd.c	om;
Date:	tte: Time:	αŽ	elinquished by:	Received by:	Via: Cown) Date Time						9. 0.	63) (2)		=		
	f necessary	samples sut	1 1 (V) V V V V V V V V V V V V V V V V V	patracted to other ac	credited laboratorie	Re This serves as notice of t	his nos	ihility. A	dia ya	- tranta	ot ot o	ام	orly pote	dt ac bet	e o indica	tion	

cted 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 NMOCD Correspondence

Jeffrey Walker

From: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>

Sent: Tuesday, January 30, 2018 2:26 PM **To:** Naranjo, Mark; Alan Brandon

Cc: Bernard Bockisch; Zane Kurtz; cctofiling@craworld.com

Subject: RE: 088210-53 Hunt APO State No. 1 (1RP-4891) ~COR-088210-53~

Mr. Brandon:

Based on the information provided, NMOCD will agree that delineation has been completed for the area in the right-of-way (1RP-4891) and approves of the proposed remedial activity of 4 ft. excavation with a properly-keyed, minimum 20 mil liner at the base. Laboratory analyses of confirmation sidewall samples for TPH extended and chlorides are required before backfill approval is granted.

Additional vertical delineation within the berms, area around the tank battery, (1RP-4892) will continue, correct?

Thanks, Olivia

From: Naranjo, Mark [mailto:MNaranjo@slo.state.nm.us]

Sent: Monday, January 29, 2018 1:28 PM

To: 'Alan.Brandon@ghd.com' <Alan.Brandon@ghd.com>; Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us> **Cc:** Bernard.Bockisch@ghd.com; Zane Kurtz <Zane_Kurtz@eogresources.com>; cctofiling@craworld.com

Subject: RE: 088210-53 Hunt APO State No. 1 (1RP-4891) ~COR-088210-53~

NMSLO approves backfill request, pending any other requirements Oliva may have.

Mark Naranjo
Assistant Division Director
Field Operations Division
575.623.4979 Office
575.626.2678 Cell
575.623.9200 Fax
New Mexico State Land Office
1001 S. Atkinson
Roswell, NM 88203
MNaranjo@slo.state.nm.us
NMStatelands.org

CONFIDENTIALITY NOTICE: This e-mail, including all attachments is for the sole use of the intended recipient[s] and may contain confidential and/or privileged information. Any unauthorized review, use, copying, disclosure or distribution is prohibited, unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender at once and destroy all copies of this message

From: Alan.Brandon@ghd.com [mailto:Alan.Brandon@ghd.com]

Sent: Wednesday, January 24, 2018 1:32 PM

To: Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us >; Naranjo, Mark < MNaranjo@slo.state.nm.us >

Cc: Bernard.Bockisch@ghd.com; Zane Kurtz < Zane Kurtz@eogresources.com >; cctofiling@craworld.com

Subject: RE: 088210-53 Hunt APO State No. 1 (1RP-4891) ~COR-088210-53~

Olivia and Mark,

- 1. Attached is an updated drawing for the site. The dates for the TP-11 samples have been corrected.
- 2. The samples were split between field screening and the laboratory. The chloride field screening strips do not always coincide with the laboratory results due to many potential variances. The screening is only used as a guide in the field and that is why we rely on the laboratory analysis.
- 3. The reason another sample was not collected at a greater depth in TP-11 is that the extent of the excavator was reached. Due to the depth of water being approximately 90 feet below ground surface and the significant drop in chloride concentrations from 16 to 20 feet below ground surface we feel that it is unlikely that groundwater would be impacted.

We would like to excavate the chloride impacted soil in the right-of-way to four feet below ground surface and line the base of the excavation. The proposed excavation limits shown on the attached figure are only estimated at this time. Field screening will be performed to guide the excavation activities and confirmation soil samples will be collected for laboratory analysis once field screening indicates soil concentrations are below the RRALs. A final drawing will be provided showing the final excavation limits and confirmation soil sample locations and results. If the soil sample analytical results indicate impacted soils above the RRALs have been removed, we would request authorization to backfill and re-seed the area.

Thanks

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Thursday, January 18, 2018 12:23 PM

To: Alan Brandon < Alan.Brandon@ghd.com >; Naranjo, Mark < mnaranjo@slo.state.nm.us >

Cc: Bernard Bockisch < <u>Bernard.Bockisch@ghd.com</u>>; Zane Kurtz < <u>Zane Kurtz@eogresources.com</u>>;

cctofiling@craworld.com

Subject: RE: 088210-53 Hunt APO State No. 1 (1RP-4891) ~COR-088210-53~

Mr. Brandon:

Several questions regarding the Figure submitted for 1RP-4891 and 1RP-4892 on January 9, 2018. In regards to delineation for 1RP-4891:

- 1. Why is the date for TP-11 FS one earlier than TP-11? Is this a typo?
- 2. Please explain the large difference between field chloride tests at 14 and 16 ft. bgs and laboratory analyses for TP-11? Were these not split samples?
- 3. The email dated from December 11, 2017 stated that complete vertical delineation required 2 depths with permissible chloride levels. Please provide a rationale for not collecting a sample further in depth beyond 20 ft. bgs at TP-11.

For like approval from NMSLO, please submit documents to Mark Naranjo in the interim.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I

Olivia.yu@state.nm.us

575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Alan.Brandon@ghd.com [mailto:Alan.Brandon@ghd.com]

Sent: Tuesday, January 9, 2018 10:11 AM

To: Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us >; agroves@slo.state.nm.us

Cc: Bernard.Bockisch@ghd.com; Zane Kurtz <Zane Kurtz@eogresources.com>; cctofiling@craworld.com

Subject: 088210-53 Hunt APO State No. 1 (1RP-4891) ~COR-088210-53~

Olivia and Amber,

Please find attached a drawing for the Hunt APO State No. 1 site showing the recent additional assessment results for the RP-4891 release. The horizontal extent of chloride impacted soil has been delineated except the area near TP-3. We propose to excavate the area in the NMDOT right-of-way noted on the drawing to a depth of 4 feet below ground surface, line the bottom of the excavation, and then backfill it. We will collect sidewall samples for field screening to guide the excavation activities. Once field screening indicates that the impacted soil has been excavated, sidewall confirmation samples will be collected for laboratory analysis. Please let us know if you concur with our proposed actions.

Additional assessment will be performed within the berm area for the 1RP-4892 release.

Thank you
CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.
This e-mail has been scanned for viruses
CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.
This email has been scanned by the Symantec Email Security.cloud service. For more information please visit http://www.symanteccloud.com

This email has been scanned by the Symantec Email Security.cloud service.

For more information please visit http://www.symanteccloud.com

This e-mail has been scanned for viruses

Jeffrey Walker

From: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us> **Sent:** Wednesday, February 28, 2018 3:47 PM

To: Alan Brandon

Cc: Bernard Bockisch; Zane Kurtz

Subject: RE: Hunt APO State No. 1 (1RP-4891 and 4892)

Mr. Brandon:

Confirmed. Just make sure to outline the section excavated to 4 ft. bgs and the section 2 ft. bgs. on a map with GPS coordinates. North sidewall to be addressed with 1RP-4892 is noted.

Thanks, Olivia

From: Alan.Brandon@ghd.com [mailto:Alan.Brandon@ghd.com]

Sent: Wednesday, February 28, 2018 3:36 PM **To:** Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us>

Cc: Bernard.Bockisch@ghd.com; Zane Kurtz <Zane_Kurtz@eogresources.com>

Subject: Re: Hunt APO State No. 1 (1RP-4891 and 4892)

Olivia,

After further discussions with Michael, he said that the 2' deep excavation extends past TP-13 to the east a little ways. The sample he collected with the 1,500 mg/kg was from west of TP-13. Based on this, we are good to the east. So we can line the whole excavation and backfill. We will remove the soil on the north side when we do the pad area. Are you OK with this?

Sent from my iPhone

On Feb 28, 2018, at 3:03 PM, Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us > wrote:

Mr. Brandon:

Thanks for the update for 1RP-4891. If backfill approval is granted, is it possible to remove this last strip between the current East sidewall and TP-13 to 2 ft. bgs during the backfill process? As much as possible in depth to promote vegetation?

Thanks, Olivia

From: Alan.Brandon@ghd.com [mailto:Alan.Brandon@ghd.com]

Sent: Wednesday, February 28, 2018 1:43 PM **To:** Yu, Olivia, EMNRD < Olivia.Yu@state.nm.us>

Cc: Bernard.Bockisch@ghd.com; Zane Kurtz < Zane Kurtz@eogresources.com>

Subject: Hunt APO State No. 1 (1RP-4891 and 4892)

Olivia,

Here is a drawing showing the sidewall samples for Hunt. The chloride concentration on the west side exceeds the RRAL and there is an overhead power line preventing further excavation in that direction. The north sample was collected next to the berm and we can excavate that soil once the lines are moved and we start working in the pad area. The sample to the east is also above the RRAL but TP-13 just a litter further east is below the RRAL. Since the caliche is so hard to excavate and they really couldn't go deeper than 2 feet in that area, can we leave that small amount of impacted soil in place? We would really like to line the excavation and backfill it as soon as possible since it is in the highway right-of-way which poses a danger. Please let me know what you think.

Thanks

Alan Brandon Senior Project Manager

GHD

T: +1 505 884 0672 | M: +1 505 697 2025 | VOIP Ext: 867318 | E: Alan.Brandon@ghd.com 6121 Indian School Rd. NE Albuquerque New Mexico 87110 | www.ghd.com

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.

This e-mail has been scanned for viruses

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.

This e-mail has been scanned for viruses

From: Nobui, Jennifer, EMNRD

To: Nate Reece

Cc: Bratcher, Michael, EMNRD

Subject: FW: [EXTERNAL] Sampling Notification

Date: Monday, October 24, 2022 10:36:43 AM

Attachments: image001.png

image002.png image003.png image004.png image005.png

You don't often get email from jennifer.nobui@emnrd.nm.gov. Learn why this is important

Nate

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Wednesday, October 19, 2022 8:15 AM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Sampling Notification

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us
http://www.emnrd.nm.gov



From: Nate Reece < Nate.Reece@ghd.com > Sent: Wednesday, October 19, 2022 7:53 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: J.T. Murrey@ghd.com>; James Kennedy<<u>james_kennedy@eogresources.com</u>>; Liam Giersdorf@ghd.com>

Subject: [EXTERNAL] Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of EOG Resources, respectfully submits notification of sampling to be conducted at the below locations:.

Hunt APO State #1 L-4-21S-34E Lea County, NM 1RP-4892

Livingston Ridge SWD System H-35-22S-31E Eddy County, NM 2RP-3486

Sampling will begin at 7:00 a.m. on Monday, October 24 - October 28, 2022.

Thank You,

Nate Reece

Environmental Scientist

GHD

Proudly employee-owned | ghd.com 11451 Katy Fwy #400, Houston, TX 77079 United States M +1 281 386 7158 | E nate.reece@ghd.com

→ The Power of Commitment

Connect



Please consider the environment before printing this email

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.

Nate Reece

From: Nobui, Jennifer, EMNRD < Jennifer.Nobui@emnrd.nm.gov>

Sent: Wednesday, November 2, 2022 11:13 AM

To: Nate Reece

Cc: Bratcher, Michael, EMNRD

Subject: FW: [EXTERNAL] Sampling Notification

You don't often get email from jennifer.nobui@emnrd.nm.gov. Learn why this is important

Nate

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Wednesday, November 2, 2022 9:20 AM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert,

EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Sampling Notification

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us

http:// www.emnrd.nm.gov



From: Nate Reece < Nate.Reece@ghd.com > Sent: Wednesday, November 2, 2022 8:38 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: J.T. Murrey < JT.Murrey@ghd.com >; Liam Giersdorf < Liam.Giersdorf@ghd.com >; James Plaster

<James.Plaster@ghd.com>

Subject: [EXTERNAL] Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of EOG Resources, respectfully submits notification of sampling to be conducted at the below locations:.

Hunt APO State #1 L-4-21S-34E Lea County, NM 1RP-4892

Livingston Ridge SWD System H-35-22S-31E Eddy County, NM 2RP-3486

Sampling will begin at 7:00 a.m. on Monday, November 7 - November 11, 2022.

Thank You,

Nate Reece Environmental Scientist

GHD

Proudly employee-owned | ghd.com 11451 Katy Fwy #400, Houston, TX 77079 United States M +1 281 386 7158 | E nate.reece@ghd.com



Connect



Please consider the environment before printing this email

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.

Nate Reece

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Sent: Wednesday, December 7, 2022 9:19 AM

To: Nate Reece

Cc: Bratcher, Michael, EMNRD; Billings, Bradford, EMNRD

Subject: RE: [EXTERNAL] Sampling Notifications

You don't often get email from ocd.enviro@emnrd.nm.gov. Learn why this is important

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>
http://www.emnrd.nm.gov



From: Nate Reece <Nate.Reece@ghd.com>
Sent: Wednesday, December 7, 2022 7:35 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: J.T. Murrey <JT.Murrey@ghd.com>; Liam Giersdorf <Liam.Giersdorf@ghd.com>; James Kennedy

<james_kennedy@eogresources.com>
Subject: [EXTERNAL] Sampling Notifications

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of EOG Resources, respectfully submits notification of tentative sampling to be conducted at the below locations:

Hunt APO State #1 L-4-21S-34E Lea County, NM 1RP-4892

Livingston Ridge SWD System H-35-22S-31E Eddy County, NM 2RP-3486

Unocal AHU Federal #1 J-1-22S-31E Eddy County, NM 2RP-321

Sampling will begin at 7:00 a.m. on Monday, December 12 - December 16, 2022.

Thank You,

Nate Reece Environmental Scientist

GHD

Proudly employee-owned | ghd.com 11451 Katy Fwy #400, Houston, TX 77079 United States M +1 281 386 7158 | E nate.reece@ghd.com



→ The Power of Commitment

Connect



Please consider the environment before printing this email

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.

Nate Reece

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Sent: Thursday, January 5, 2023 12:18 PM

To: Nate Reece

Cc: Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] Sampling Notifications

Nate,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov



From: Nate Reece <Nate.Reece@ghd.com> Sent: Thursday, January 5, 2023 8:44 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: J.T. Murrey <JT.Murrey@ghd.com>; Daniel Sparks <Daniel.Sparks@ghd.com>

Subject: [EXTERNAL] Sampling Notifications

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of EOG Resources, respectfully submits notification of tentative sampling to be conducted at the below locations:

Hunt APO State #1 L-4-21S-34E Lea County, NM 1RP-4892

Sampling will begin at 7:00 a.m. on Monday, January 9 – January 13, 2023.

Thank You,

Nate Reece Environmental Scientist

GHD

Proudly employee-owned | ghd.com

11451 Katy Fwy #400, Houston, TX 77079 United States **M** +1 281 386 7158 | **E** nate.reece@ghd.com

→ The Power of Commitment

Connect



Please consider the environment before printing this email

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.

Appendix E Photographic Log

Photographs of 2019 Excavation Activities (1RP-4891 and 1RP-4892):



View of excavation of 1RP-4892 facing southeast.



View of liner in excavation of 1RP-4892 facing west.



Site Photograph

EOG Hunt APO State #1 Release Site.



View of excavation/lining of 1RP-4891 facing northeast.



Site Photograph

EOG Hunt APO State #1 Release Site.

Photographs of 2022 Outside of Berm Excavation Activities:



View of excavation facing southeast.



View of southern end of excavation facing southwest.



Site Photograph

EOG Hunt APO State #1 Release Site.



View of excavation facing west.



View of excavation facing west.



Site Photograph

EOG Hunt APO State #1 Release Site.

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 224600

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	224600
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	6/30/2023