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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2116941247
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

,		OGRID 73					
Contact Name Chase Settle			Contact Te	^{relephone} 575-748-1471			
Contact email Chase_Settle@eogresources.com		Incident #	# (assigned by OCD) nAPP2116941247				
Contact mai	ling address	104 S. 4th Str	eet, Artesia,	NM 88	8210		
					Release So	Source	
Latitude 32	65187				Lamaituda	-104.48327	
Latitude <u>02</u>	.00101		(NAD 83 in a	decimal de	grees to 5 decim	imal places)	
Site Name R	odke AOV	 √ #1			Site Type E	Battery	\neg
Date Release	Discovered	06/09/2021			API# (if app	^{oplicable)} 30-015-28404	
					•		
Unit Letter	Section	Township	Range		Coun	inty	
Α	21	19S	25E	Edd	у		
Surface Owne		Federal T	Nature ar	nd Vo	lume of I	Release	
Crude Oi		Volume Released	ed (bbls) Unkno	ch calculat	tions or specific	Volume Recovered (bbls)	
Produced	Water	Volume Release		JVVII		Volume Recovered (bbls)	
Is the concentration of dissolved chloride produced water >10,000 mg/l?		e in the	☐ Yes ☐ No				
Condensa	ate	Volume Release				Volume Recovered (bbls)	
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units))	Volume/Weight Recovered (provide units)				
Cause of Rel	^{ease} Histor dama(ical impacts we ge that allowed	ere discovered the release c	d during of crude	g the P&A o	of the battery. The steel oil tank had corrosion ease volume and date are unknown.	n n

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Incident ID	nAPP2116941247
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
☐ Yes ☑ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
✓ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:		
Dog 10 15 20 9 D (4) NIM	[AC the regnensible nexts may commence w	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
		Exactions and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Chase	Settle	Title: Rep Safety & Environmental Sr
Signature: Than	Pettle	Date: 06/18/2021
email: Chase_Settle	@eogresources.com	Telephone: 575-748-1471
OCD Only		
Received by:		Date:

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Incident ID	nAPP2116941247
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	58.9 (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?	☐ Yes ☑ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 ✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ✓ Field data ✓ Data table of soil contaminant concentration data ✓ Depth to water determination ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information ✓ Topographic/Aerial maps ✓ Laboratory data including chain of custody 		

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

Received by OCD: 3/15/2022 7:21:56 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	nAPP2116941247
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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: Chase Settle	Title: Rep Safety & Environmental Sr	
Signature: Chase Settle	Date: 03/14/2022	
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only		
Received by:	Date:	

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Incident ID	nAPP2116941247
District RP	
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 predeconstruction.	roduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr	
Signature: Chase Settle	Date: 03/14/2022	
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only		
Received by:	Date:	
☐ Approved	Approval Denied Deferral Approved	
Signature: Jennifer Nobili	Date: 03/18/2022	

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



Our ref: 11230052

March 09, 2022

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

Re: Site Characterization and Remediation Work Plan

Rodke AOY #1 Release Site

EOG Resources Inc.

Incident ID: nAPP2116941247

G-21-19S-25E, Eddy County, New Mexico

To Whom It May Concern:

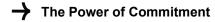
1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Rodke AOY #1 Release Site (Site). The Site is located in Unit Letter A Section 21 of Township 19 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.648394 N latitude and 104.488039 W longitude. The release occurred on private land owned by Ross Ranch. Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2, Site Assessment: Soil Analytical Results Map.

2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on June 18, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to go ahead and file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number NAPP2116941247. The Release Notification, Site Assessment/Characterization and Remediation Plan portions of Form C-141 are attached to the front of this report.



3. Groundwater and Site Characterization

GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

On December 17, 2021, White Drilling Company (White) installed a soil boring at GPS Coordinates, 32.648031 N latitude and 104.488219 W longitude to approximately 60 feet below ground surface (bgs) which is located on the site. The well was left open for 72 hours and a water level meter was utilized to determine the presence or absence of groundwater. Groundwater was detected at 58.9 feet bgs, and the temporary well was plugged and abandoned. Depth to groundwater for this Site is between fifty-one (51) and one hundred (100) feet. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area of medium karst potential with depth to groundwater between fifty-one (51) and one hundred (100) feet and meets the closure criteria for depth to groundwater between fifty-one (51) and one hundred (100) feet in Table 1 NMAC 19.15.29.12. The Site characterization documentation (White's Temporary Well Log, GHD Boring Log, Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
No Receptors Found	58.9

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

Constituent	Limits
Chloride	10,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg

4. Initial Soil Delineation Assessment Summary and Findings

On July 19 through August 30, 2021, GHD Services Inc. (GHD) and EOG's contractor Culberson Construction Energy Services (CCI) installed eleven (11) test pits, TP1 through TP11, within the suspected impacted area. Soil samples were collected at depths ranging from surface to twenty (20) feet bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

Two (2) of the eleven (11) test pits had samples exceeding applicable NMAC Table 1 Closure Criteria for groundwater less than fifty (50) feet: TP1-8, TP1-15, TP1-20, TP11-6 and TP11-15. Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

On December 21, 2021, GHD and White installed a soil boring SB-1 to fifty (50) feet bgs in order to vertically delineate the area around TP-1. Soil samples were collected in approximate five (5) foot intervals beginning at five (5) feet bgs, from SB-1. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by HEAL in Albuquerque, New Mexico. Benzene, BTEX, and Total TPH concentrations were delineated to below 10 mg/kg, 50 mg/kg, and 2,500 mg/kg at fifty (50) feet bgs. The SB-1 Soil Boring Log is provided as Attachment B.

5. nAPP2116941247 Proposed Work Plan

Test pit TP-1 exhibited benzene, BTEX and Total TPH above Table 1 closure criteria at eight (8), fifteen (15), and twenty (20) feet bgs. Test pit TP-11 exhibited Total TPH above Table 1 closure criteria at six (6) feet bgs, with all remaining samples collected exhibiting no further concentrations above Table 1 criteria. Soil boring SB-1 exhibited exceedances above Table 1 closure criteria for benzene, BTEX, and/or Total TPH at five (5) to twenty (20) feet and forty (40) and forty-five (45) feet bgs. None of the other samples submitted for analysis exhibited exceedances above Table 1 closure criteria.

GHD, on behalf of EOG, proposes to excavate soils containing benzene, BTEX, Total TPH, and chloride concentrations over 10 mg/kg, 50 mg/kg, 100 mg/kg and 600 mg/kg, respectively, within the top four feet of the impacted area. Additionally, the area around TP-11 will be excavated to a depth of six (6) to ten (10) feet bgs depending on confirmation sample results, and TP-1/SB-1 will be excavated to a depth between twenty (20) and twenty-five (25) feet bgs depending on confirmation sample results. At the completion of confirmation sampling, if constituents are below Table 1 criteria, the site will be backfilled with non-impacted soil. If results are above Table 1 criteria, a microbial strain will be added to begin the bioremediation of the underlying hydrocarbon impacts, then the excavation will be backfilled with non-impacted soil prior to the setting of treatment wells.

After the TP-1/SB-1 area has been backfilled, a drill rig will be contracted to install soil treatment wells within this area to assist with the bioremediation and venting of the hydrocarbon impacts below twenty-five (25) feet bgs. One treatment well will be installed for every 100 square feet of impacted area to be remediated, this will be determined by confirmation sampling the bottom of the excavation and sidewalls of the TP-1/SB-1 area when it is excavated to 25 feet bgs. The wells will consist of two (2) inch pvc pipe with slotted well screen installed for the last 5-10 feet of the well, well depth will be staggered to ensure that the microbial product used to increase bioremediation makes contact with all areas that require treatment. The microbial strain will be absorbed into the surrounding soils, allowing for the digestion of organics and the breakdown of the hydrocarbons. The microbial strain will be injected into the wells every two (2) weeks for approximately twelve (12) weeks, totaling six (6) separate treatments. Thirty (30) days after the last treatment, a core rig will be brought in to perform sampling of the treated areas. This will consist of performing one sample boring per 200 square feet, with samples collected at five (5) foot increments with anticipated sampling to begin at thirty-five (35) feet bgs to a depth of fifty (50) feet bgs.

Composite confirmation samples will be collected from the sidewalls and bottom of the excavation from areas representing no larger than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and

→ The Power of Commitment

chloride by EPA Method 300. Sidewall samples in the first four feet will meet Table 1 closure criteria for groundwater less than fifty (50) feet. After four (4) feet the closure criteria will revert back to Table 1 closure criteria for groundwater between fifty-one (51) to one hundred (100) feet.

Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 800 cubic yards. The excavation will be backfilled with non-impacted soil transported to the site. The excavation portion of the Remediation Plan will be performed within 90 days after the work plan has been approved. If a driller isn't available within that time frame a request for an extension will be submitted to the NMOCD, the bioremediation portion of the Remediation Plan is scheduled to take 180 days, but more time may be required to adequately breakdown the hydrocarbon within the impacted soils therefore an update and extension of time may be required dependent on the speed of bioremediation. Once confirmation samples collected from the soil boring(s) post treatment are below Table 1 closure criteria, treatment wells will be plugged with non-impacted soil material and cut/capped at a depth of three (3) feet bgs, or completely removed with the bore hole backfilled with non-impacted soil material. A closure report will be prepared to document remediation activities and submitted to the NMOCD. If the samples exhibit Total TPH concentrations above Table 1 closure criteria an update will be provided to NMOCD with the progress to date with the additional remediation steps that will occur for the site.

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

Sincerely,

GHD

Becky Haskell

Senior Project Manager

Nate Reece

Environmental Scientist

Make Jun

BH/NR/1

Encl. Figure 1 – Site Location Map

Rebecca Haskell

Figure 2 – Site Assessment: Soil Analytical Results Map

Table 1 - Summary of Soil Analytical Data

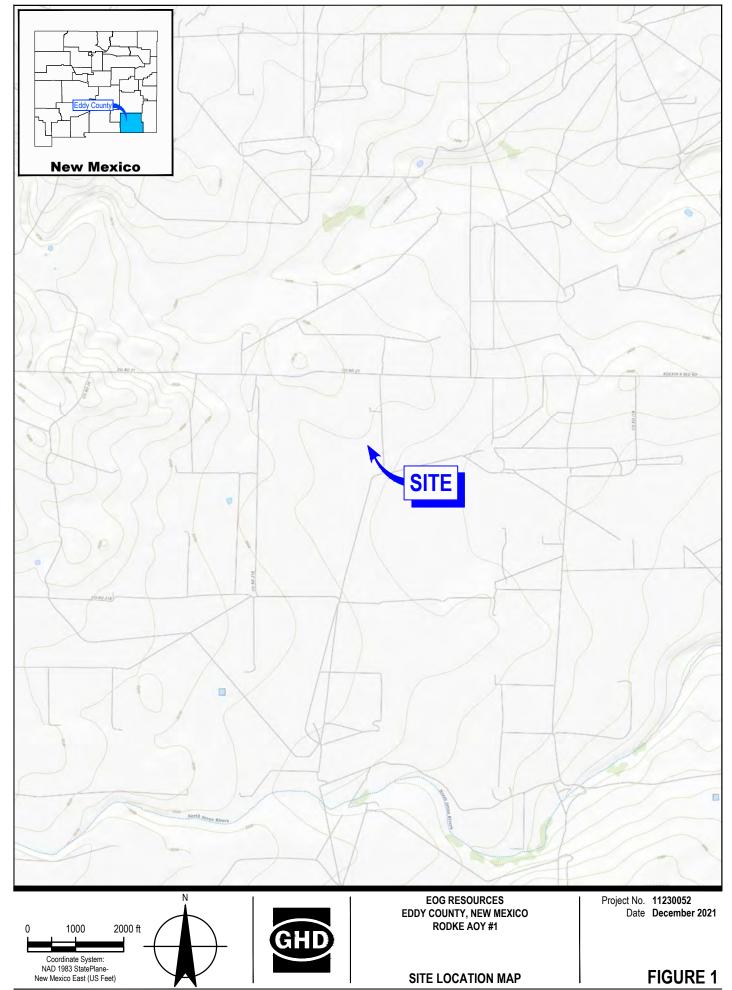
Attachment A – Site Characterization Documentation

Attachment B – SB-1 Soil Boring Log

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

cc: Chase Settle

Figures





BTEX Total GRO/DRO/MRO Depth Sample (mg/Kg) (mg/Kg) Sample ID Date (feet bgs) Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC 10 mg/Kg 50 mg/Kg 2,500 mg/Kg | 10,000 mg/Kg Initial Assessment Samples 8,300 TP1-8 7/19/2021 19,600 7/19/2021 11 411 10,100 5,200 TP1-15 TP1-20 7/19/2021 20 539 13,300 4,200 TP2-2 7/19/2021 < 0.025 < 0.099 <50 <60 7/19/2021 <50 TP2-6 6 < 0.024 < 0.095 <60 7/19/2021 2 TP3-2 < 0.025 < 0.099 <44 300 **TP3-4** 7/19/2021 < 0.024 < 0.097 93 TP3-7 7/19/2021 <43 < 0.024 < 0.095 TP4-S 7/20/21 Surface < 0.025 < 0.10 <60 2 TP4-2 7/20/21 < 0.025 < 0.10 <49 <60 TP5-S 7/20/21 < 0.024 < 0.097 <60 Surface <44 7/20/21 < 0.025 < 0.099 TP5-2 2 <49 450 7/20/21 < 0.025 < 0.10 390 7/20/21 < 0.024 < 0.098 TP5-14 TP6-S 7/20/21 Surface < 0.025 < 0.098 <60 7/20/21 < 0.025 < 0.10 TP6-2 91 TP7-S 8/30/21 Surface < 0.023 < 0.093 <48 <61 TP7-2 8/30/21 < 0.023 < 0.093 <47 <60 TP8-S 8/30/21 Surface < 0.024 < 0.095 <47 <60 TP8-2 8/30/21 < 0.025 < 0.098 <49 <60 TP9-S 8/30/21 Surface < 0.024 < 0.095 <50 <60 < 0.024 <48 TP9-2 8/30/21 < 0.095 110 TP10-S 8/30/21 Surface < 0.024 < 0.096 <60 TP10-2 8/30/21 < 0.024 <0.098 <50 <60 8/30/21 < 0.49 <1.9 67 TP11-6 6 8 640 TP11-10 8/30/21 10 < 0.024 < 0.096 <48 87 8/30/21 12 < 0.024 < 0.096 <47 TP11-12 15 < 0.023 < 0.093 TP11-15 8/30/21 82 8/30/21 < 0.023 < 0.092 <50 TP11-20 20 200 Initial Assessment Samples SB-1-5' 12/21/2021 5,250 4,200 12/21/2021 176 6,200 4,900 46 15 < 0.48 6,380 2,900 SB-1-15' 12/21/2021 SB-1-20' 12/21/2021 20 96.6 10,590 2,300 1.6 SB-1-25' 12/21/2021 25 0.046 1.436 164 71 12/21/2021 30 < 0.024 2.6 1,340 SB-1-30' 120 12/21/2021 0.16 10.16 1,366 260 12/21/2021 40 3.8 66.8 1,130 290 SB-1-40' SB-1-45' 12/21/2021 45 53 653 17,900 89 SB-1-50' 12/21/2021 50 0.074 0.074 <48 <60

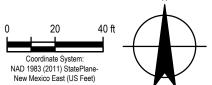
SOIL BORING TO GROUNDWATER DEPTH DEPTH OF SAMPLE (FT)

> BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)

TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)

NOTES:

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





EOG RESOURCES EDDY COUNTY, NEW MEXICO **RODKE AOY #1**

SITE ASSESSMENT: SOIL ANALYTICAL RESULTS MAP Project No. 11230052 Date March 2022

Tables

Table 1 Summary of Soil Analytical Data Rodke AOY 1 EOG Resources **Eddy County, New Mexico**

				Î E	Table 1 of Soil Analytical I Rodke AOY 1 OG Resources County, New Mexic						Page 1	of 2
Sample ID	Sample Date	Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	GRO(C6-C10) (mg/Kg)	DRO(C10- C28) (mg/Kg)	TPH MRO (C28- C35) (mg/Kg)	Total GRO/DRO/MRO (mg/Kg)	Chloride
			10 ma/Ka		Table I C	losure Criteria		eet Depth to Gro	undwater 19.15	5.29 NMAC	2,500 mg/Kg	10,000 mg
			10 mg/Kg		Initial Assessment		50 mg/Kg				2,500 mg/Kg	10,000 mg.
TP1-8	7/19/2021	8	300	640	260	250	1,450	6,700	9,300	3,600	19,600	8,300
TP1-15	7/19/2021	15	11	160	120	120	411	2,200	5,600	2,300	10,100	5,200
TP1-20	7/19/2021	20	29	210	140	160	539	3,200	7,200	2,900	13,300	4,200
TP2-2	7/19/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<50	<50	<60
TP2-6	7/19/2021	6	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<50	<50	<60
TP3-2 TP3-4	7/19/2021 7/19/2021	2 4	<0.025 <0.024	<0.049 <0.049	<0.049 <0.049	<0.099 <0.097	<0.099 <0.097	<4.9 <4.9	<8.9 <8.8	<44 <44	<44 <44	590 300
TP3-7	7/19/2021	7	<0.024	<0.049	<0.049	<0.097	<0.097	<4.8	<8.5	<43	<43	93
TP4-S	7/20/21	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<47	<60
TP4-2	7/20/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	<60
TP5-S	7/20/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<8.8>	<44	<44	<60
TP5-2	7/20/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	450
TP5-8	7/20/21	8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.8	<44	<44	390
TP5-14	7/20/21	14	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	66
TP6-S	7/20/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	<60
TP6-2	7/20/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<47	<47	91
TP7-S	8/30/21	Surface	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<48	<48	<61
TP7-2	8/30/21	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.3	<47	<47	<60
TP8-S	8/30/21	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.4	<47	<47	<60
TP8-2	8/30/21	2	<0.024	<0.048	<0.048	<0.098	<0.093	<4.9	<9.8	<49	<49	<60
TP9-S	8/30/21	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.9	<50	<50	<60
TP9-2	8/30/21	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<48	110
TP10-S	8/30/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	<60
TP10-2	8/30/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	<60
TP11-6	8/30/21	6	<0.49	<0.97	<0.97	<1.9	<1.9	240	5,800	2,600	8,640	67
TP11-10	8/30/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	87
TP11-12	8/30/21	12	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	86
TP11-15	8/30/21	15	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	93	63	156	82
TP11-20	8/30/21	20	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.9	<50	<50	200

Table 1 Summary of Soil Analytical Data Rodke AOY 1 **EOG Resources Eddy County, New Mexico**

Table 1 Summary of Soil Analytical Data Rodke AOY 1 EOG Resources Eddy County, New Mexico												2 of 2
Sample ID	Sample Date	Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	GRO(C6-C10) (mg/Kg)	DRO(C10- C28) (mg/Kg)	TPH MRO (C28- C35) (mg/Kg)	Total GRO/DRO/MRO (mg/Kg)	Chloride (mg/Kg)
			10 mg/Kg		Table I C	losure Criteria	for Soils <50 f 50 mg/Kg	eet Depth to Grou	undwater 19.15		2,500 mg/Kg	10,000 mg/Kg
SB-1-5'	12/21/2021	5	50	190	110	110	460	3,100	1,600	550	5,250	4,200
SB-1-10'	12/21/2021	10	6	59	51	60	176	1,400	3,600	1,200	6,200	4,200
SB-1-15'	12/21/2021	15	<0.48	10	17	19	46	480	4,200	1,700	6,380	2,900
SB-1-20'	12/21/2021	20	1.6	22	33	40	96.6	790	7,000	2,800	10,590	2,300
SB-1-25'	12/21/2021	25	0.046	0.21	0.54	0.64	1.436	34	130	<45	164	71
SB-1-30'	12/21/2021	30	<0.024	0.15	0.95	1.5	2.6	40	950	350	1,340	120
SB-1-35'	12/21/2021	35	0.16	2.2	3.7	4.1	10.16	96	920	350	1,366	260
SB-1-40'	12/21/2021	40	3.8	21	21	21	66.8	610	380	140	1,130	290
SB-1-45'	12/21/2021	45	53	260	170	170	653	4,400	10,000	3,500	17,900	89
SB-1-50'	12/21/2021	50	0.074	<0.050	<0.050	<0.099	0.074	<5.0	<9.6	<48	<48	<60

Notes:

- Values reported in mg/kg
 < = 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. Indicates analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
- Indicates analytical samples that exceed the NMOC 19.15.29.13 Table 1
- Closure Criteria for the site. (Top four feet)

Attachment A Site Characterization Documentation



N	OSE POD NO					WELL TAG ID N	IO.			FILE NO(5	3).			
OCATIC	WELL OWN EOG Reso									ONE (OPTIO -703-653	•			
WELL L	WELL OWN 105 S. 4th		LING	ADDRESS					CIT Arte			STATE NM	88210	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO	on _	LAT	DE	GREES 32	MINUTES 38	SECO 52		ال		REQUIRED: ONE TEN	ΓH OF A S	ECOND	
VER.	(FROM GI	'S)	LON	GITUDE	104	29	17	.59 W	* D/	ATUM REC	QUIRED: WGS 84			
1. GE	DESCRIPTION Rodke AO		ATING	G WELL LOCATION TO	STREET ADDI	RESS AND COMM	ON LANDM	IARKS – PL	SS (SEC	CTION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE	
	LICENSE NO			NAME OF LICENSED	DRILLER	John W. White	e				NAME OF WELL DRI White D		OMPANY ompany, Inc.	
	DRILLING S 12/17/)	DRILLING ENDED 12/21/2021	DEPTH OF CO	OMPLETED WELL	(FT)	BORE HO	60.0	PTH (FT)	DEPTH WATER FIRS	ST ENCOU		
N(COMPLETE	O WELL	IS:	ARTESIAN	DRY HO	LE 🗸 SHALI	OW (UNC	ONFINED)			STATIC WATER LEV	EL IN CO 55.5		LL (FT)
ATIC	DRILLING F	LUID:		✓ AIR	MUD	ADDIT	IVES – SPE	CIFY:						
ORM	DRILLING M	IETHOD	:	✓ ROTARY	П намме	R CABLE	TOOL	П отн	ER – SP	ECIFY:				
2. DRILLING & CASING INFORMATION	DEPTH FROM	(feet bg		BORE HOLE DIAM (inches)	(include	MATERIAL AN GRADE each casing strin sections of scree	g, and	CON	ASINO NECT TYPE pling di	ION	CASING INSIDE DIAM. (inches)	THI	NG WALL CKNESS nches)	SLOT SIZE (inches)
3&(·								
TIN														
DRII														
2.				-										
												-		
							· · · · · · · · · · · · · · · · · · ·							
Ţ	DEPTH			BORE HOLE DIAM. (inches)	l .	ST ANNULAR VEL PACK SIZ				L	AMOUNT (cubic feet)		METHO PLACEN	
ANNULAR MATERIAL	FROM 0.0	T0		6.0		Type 1 Ceme					11.77	P	ump Mix w/	
MAT														
AR														
NUI														
3. AĽ														
	OSE INTER	NAL U	SE								WELL RECORD	& LOG (Version 04/3	0/19)
FILE				W 1		PODN	10.		*****	TRN N			PACE	1 OF 2
LLOC	ATION			10000					WEL	L TAG II	NO.		PAGE	1 OF 2

	DEPTH (feet bgl)					ESTIMATED
	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENC INCLUDE WATER-BEARING CAVITIES OR F (attach supplemental sheets to fully descr	RACTURE ZONES	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0.0	1.0	1.0	Gravel w/brown sand		Y /N	ZONES (gpin)
	1.0	9.0	8.0	Brown sandy clay		Y VN	
	9.0	11.0	2.0	Gravel w/sand		Y VN	
	11.0	18.0	7.0	Brown clay		Y VN	
	18.0	35.0	17.0	Gravel		Y VN	
ر ا	35.0	40.0	5.0	Brown sand/clayey sand		Y VN	
VEL	40.0	50.0	10.0	Green brown sand		Y VN	
4. HYDROGEOLOGIC LOG OF WELL	50.0	60.0	10.0	Red brown clayey sand		✓ Y N	!
96	30.0		10.0	Red blown olayey sand		YN	
CL						YN	
150						Y N	
EOL						YN	
50%				-		YN	
XDI						YN	
4. H						YN	
						YN	
						YN	
			-			YN	
* .						YN	
						YN	
						YN	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	т	TAL ESTIMATED	
·	PUMP			BAILER OTHER – SPECIFY:	1	ELL YIELD (gpm):	0.00
/ISION	WELL TEST	TEST F START	RESULTS - ATTA TIME, END TIM	ACH A COPY OF DATA COLLECTED DURING WE IE, AND A TABLE SHOWING DISCHARGE AND D	LL TESTING, INCLU RAWDOWN OVER T	DING DISCHARGE N	METHOD, D.
	MISCELLAN	NEOUS INF	ORMATION:				
TEST; RIG SUPERV							
s su							
; RIG							
EST	PRINT NAM	E(S) OF DR	ILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISIO	N OF WELL CONSTR	LICTION OTHER TH	AN LICENSEE
5. T	William B. A			· is one (a) I i i i i i i i i i i i i i i i i i i	WEEL CONSTI	COTION OTHER TH	AII DICLIBLE.
		CUATIOS					
E)	BY SIGNING	BELOW,	I CERTIFY THA	AT TO THE BEST OF MY KNOWLEDGE AND B WELL. I ALSO CERTIFY THAT THE WELL TAG, II	ELIEF, THE FOREG	OING IS A TRUE A	ND CORRECT
J. C. R.	WELL RECO	RD WILL A	LSO BE FILED	WITH THE PERMIT HOLDER WITHIN 30 DAYS AF	TER THE COMPLET	ION OF WELL DRILL	ING.
6. SIGNATURE	A Property of the State of the	1					
SIG		114		John W. White		01/04/2022	
.9	-	SIGNATU	RE OF DRILLER	R / PRINT SIGNEE NAME	-	DATE	
F0-	OGD TI YES		100.7				
	. OSE INTERN E NO.	AL USE		POD NO.	WR-20 WELL F	RECORD & LOG (Ver	sion 04/30/2019)
	CATION	70.4					PAGE 2 OF 2
	~ - -			<u> </u>	ELL TAG ID NO.		111002012

Page 1 of 1

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

HOLE DESIGNATION: DTW Well

PROJECT NAME: Rodke AOY #1 PROJECT NUMBER: 11230052 DATE COMPLETED: December 17, 2021 CLIENT: EOG Resources DRILLING METHOD: Air Rotary/Split Spoons

EPTH DOS	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH	SOIL E	BORING			SAMF	
BGS			BGS			NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)
5	SM-SILTY SAND, dark brown, dry						=		
15	CL-SILTY CLAY, light brown, dry		13.00						
20	GP-GRAVEL CL-SILTY CLAY, light brown, dry	609	18.00 21.00						
25	GE-GIETT GEAT, light blown, dry				— Cement Grout				
30									
35	CL-SILTY CLAY, reddish brown, dry		35.00						
40	SP-SAND, fine to medium grained, light brown, slightly moist		42.00						
45 —	CL-SANDY CLAY, with consolidated sandstone interbedded throughout, reddish brown, moist		45.00						
50									
55	- wet at 55.50ft BGS		V						
60 <u> </u>	END OF BOREHOLE @ 60.00ft BGS	<i>V////</i>	60.00						
	Gauged depth to water of DTW Well 72 hours later: 58.9 ft BGS.								

OSE PUBLIC PRINT



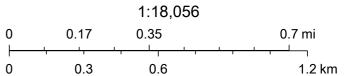
10/20/2021, 11:22:43 AM

GIS WATERS PODs OSE District Boundary SiteBoundaries

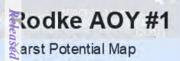
Active New Mexico State Trust Lands

Pending

Both Estates



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

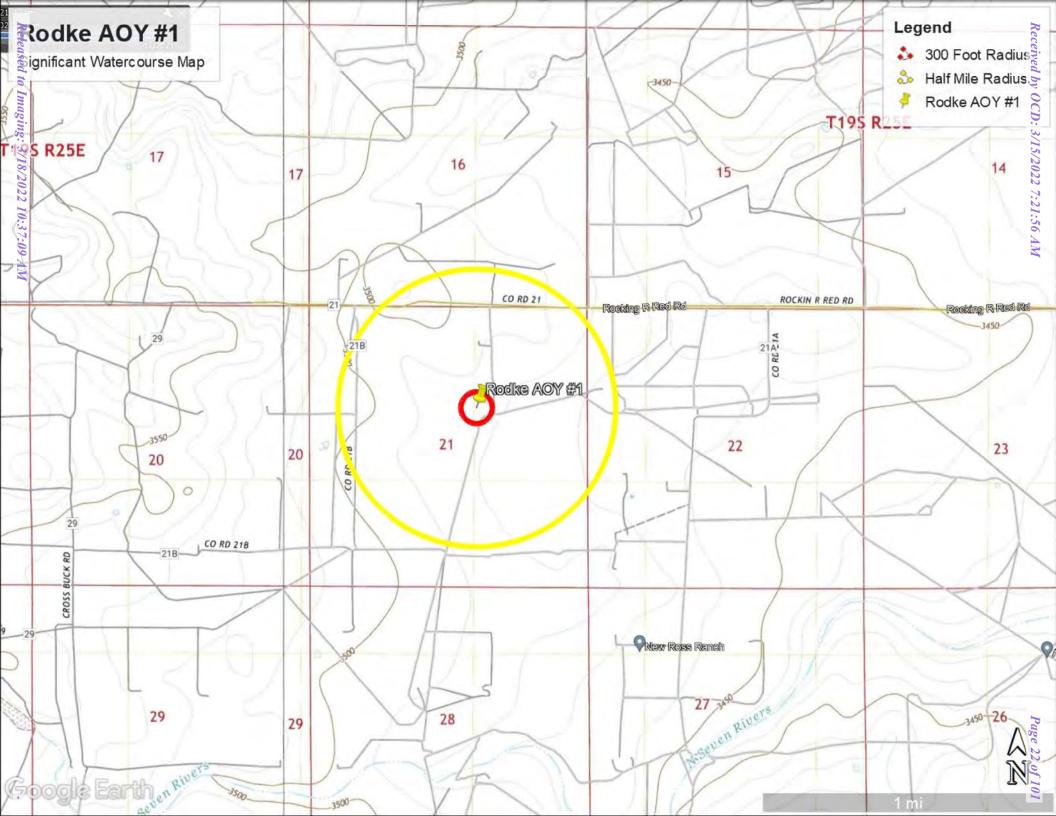


Legend

High
Low
Medium
Rodke AOY #



Nage 21 of 101





Rodke AOY #1 Wetlands Map



December 13, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine



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

National Flood Hazard Layer FIRMette





Legend

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

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

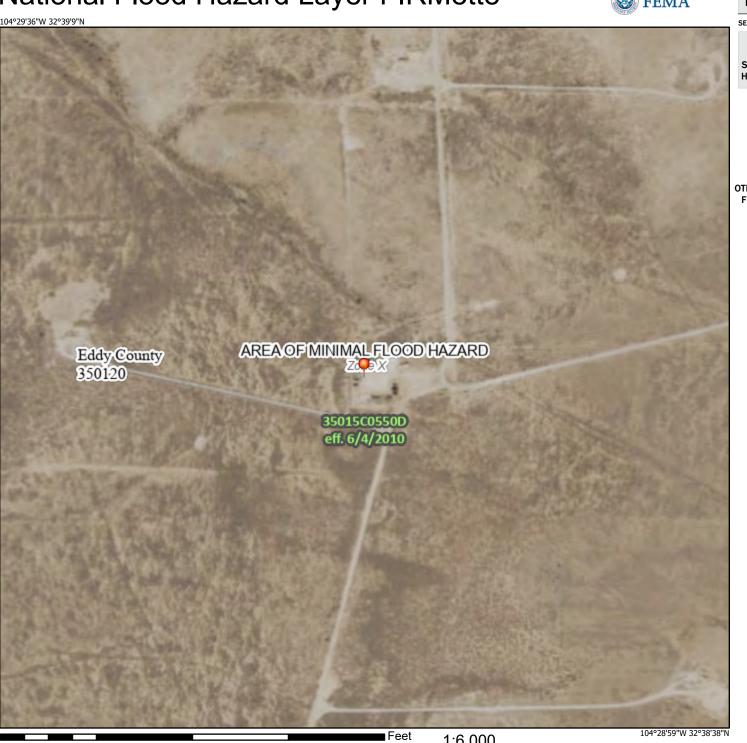
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/13/2021 at 12:35 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.

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

an authoritative property location.

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



2.000

Attachment B SB-1 Soil Boring Log



NO	OSE POD NO RA-13122			3-1)	WEL	L TAG ID NO.			E FILE NO(5 -13122	5).	I		
OCATI	WELL OWNE EOG Reso				······································				ONE (OPTIO 5-703-653	·			
GENERAL AND WELL LOCATION	WELL OWNI 105 S. 4th		ING A	ADDRESS				CIT Art	ry esia		STATE NM	88210	ZIP
L AND	WELL LOCATIO	N j	LATI	DE FUDE	GGREES M	INUTES S	ECONDS 54.13 N	* A	CCURACY	REQUIRED: ONE TENT	TH OF A SEC	OND	
VERA	(FROM GP	'S)	LONG	ITUDE	104	29	17.03 W	7 * E	OATUM REC	UIRED: WGS 84			
1. GE	DESCRIPTION Rodke AO		TING	WELL LOCATION TO	STREET ADDRESS A	ND COMMON LAI	NDMARKS – PI	LSS (SE	CTION, TO	WNSHJIP, RANGE) WH	ERE AVAILA	BLE	
	LICENSE NO WD-1			NAME OF LICENSED		W. White				NAME OF WELL DRI White D	ILLING COMI		
	DRILLING ST			DRILLING ENDED 12/21/2021	DEPTH OF COMPLET	TED WELL (FT)	BORE H	OLE DE 50.0	EPTH (FT)	DEPTH WATER FIRS	ST ENCOUNT DRY	ERED (FT)	
-	COMPLETED	O WELL I	S:	ARTESIAN	✓ DRY HOLE	SHALLOW (U	MCONFINED)			STATIC WATER LEV	EL IN COMP.	LETED WE	LL (FT)
TIOL	DRILLING FI	LUID:		✓ AIR	MUD MUD	ADDITIVES –	SPECIFY:						
RMA	DRILLING M	ETHOD:		✓ ROTARY	HAMMER	CABLE TOOL	. DOTH	IER – SI	PECIFY:				
2. DRILLING & CASING INFORMATION	DEPTH ((feet bgl	<u> </u>	BORE HOLE DIAM		ERIAL AND/OF ADE asing string, and	CON	CASIN NECT	ΓΙΟΝ	CASING INSIDE DIAM.	CASING THICK	NESS	SLOT SIZE (inches)
& CAS				(inches)		ns of screen)	(add cou			(inches)	(inch		(menes)
LING													
DRIL													
.5						. 4. 4							
	DEPTH ((feet bgl	.)	BORE HOLE	LIST AN	INULAR SEAL	MATERIAL	AND		AMOUNT		метно	
SIAL	FROM	ТО		DIAM. (inches)		ACK SIZE-RA			AL .	(cubic feet)		PLACEM	
ATEI	0.0	50.0		6.0	Tyl	pe 1 Cement-Be	ntonite Slurry	·		9.81	Pum	p Mix w/	Trimie Pipe
ANNULAR MATERIAL													
NUL,													
3. AN													
	OSE INTER	NAL US	SE			DOD NO				WELL RECORD &	& LOG (Vei	rsion 04/3	0/19)
FILE	ATION					POD NO.		WHI	TRN N L TAG II		•	PAGE	1 OF 2
								1777	''' I'' JO II	, 1, 0,		1	

	DEPTH (feet bgl)	THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTERED -		WATER	ESTIMATED YIELD FOR
	FROM	ТО	(feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	~ I	BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
	0.0	0.5	0.5	Gravel w/brown sand		Y / N	-
	0.5	3.0	2.5	HC stained clay		Y ✓N	
	3.0	9.0	7.0	Brown sandy clay		Y ✓N	
	9.0	11.0	2.0	Brown clay w/gravel		y ✓n	
	11.0	21.0	10.0	Gravel w/brown sand		Y ✓N	
17	21.0	23.0	2.0	HC stained clay		Y ✓N	
4. HYDROGEOLOGIC LOG OF WELL	23.0	26.0	3.0	Brown sandy clay		Y ✓N	
OF	26.0	30.5	4.5	Gravel w/brown sand		Y ✓N	
507	30.5	31.0	0.5	Brown sand/sandstone		Y ✓ N	
GIC.	31.0	32.0	1.0	Gray stained clay		Y ✓N	
100	32.0	38.0	6.0	Red brown sandy clay		Y ✓N	
GEO	38.0	43.0	5.0	Green gray silty sandy clay		Y ✓N	
ORO	43.0	50.0	7.0	Brown sand/sandstone		Y ✓N	
НУ						Y N	
4.						Y N	
						Y N	
						Y N	
						Y N	
						Y N	
						Y N	
						Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:		ESTIMATED	
	PUMI	· AI	R LIFT	BAILER OTHER – SPECIFY:	WELL Y	YIELD (gpm):	0.00
/ISION	WELL TEST			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVI			
VIS	MISCELLA	NEOUS INF	ORMATION: H	ydrocarbon present			
PER			**.	, account on present			
TEST; RIG SUPERV							
ľ; RI							
rest	PRINT NAM	IE(S) OF DR	LILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION	ON OTHER TH	AN LICENSEE:
S.	William B. A	Atkins					
	DV SIGNINI	G PELOW	I CEDTIEV TU	AT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOR	ECODIC	IC A TOITE A	ND CORRECT
RE	RECORD OF	THE ARO	VE DESCRIBED	WELL I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HA WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMP	S BEEN IN	NSTALLED AN	ID THAT THIS
ATC	WEEL REC		LESQ BE TILLED	WITH THE TERVIT HOLDER WITHIN 30 DATS AFTER THE COMIT	ETION OF	WEEL DRIEL	лио.
SIGNATURE	,		·	John W. White		01/04/2022	
6.		SIGNATU	JBE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
EOF	OCE INTERN	JAT TICE		WD 00 WD	I DECO	D & LOC (7)	-: 04/20/2010
	R OSE INTERN E NO.	NAL USE	•	POD NO. TRN NO.	LL RECOR	w & LOG (Ver	sion 04/30/2019)
LOC	CATION			WELL TAG ID NO.			PAGE 2 OF 2
				, 1113 ID 110.			.l

Page 1 of 1

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rodke AOY #1 HOLE DESIGNATION: SB-1

PROJECT NUMBER: 11230052 DATE COMPLETED: December 21, 2021
CLIENT: EOG Resources DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Artesia, New Mexico FIELD PERSONNEL: L. Mullins

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH	SOIL BORING			SAMF		
ft BGS			BGS	33,2,23,111,13	NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	TOTAL TPH
5	CL-SILTY CLAY, with gravel interbedded throughout, dark brown and gray, dry				5	-	100	4000	530
10	GP-GRAVEL, with silt		1 1		10'		100	5500	620
15					15'		100	2900	640
20	CL-SANDY CLAY, with gravel, light brown		23.00	Cement (Grout 20'		100	2400	110
25	GP-GRAVEL, with silt		26.00		25		100	71	16
30	CL-SILTY CLAY, light brown and red, dry		30.00		30'		100	120	13
35					35		100	260	14
40	SM-SILTY SAND, light brown, slightly moist		42.00		40'		100	290	11
45	SP-SAND, fine to medium grained, light brown, slightly moist		45.00		45'		100	89	180
50 —	END OF BOREHOLE @ 50.00ft BGS		50.00		50'			<60	<4
55									
60									
NC	OTES: MEASURING POINT ELEVATIONS MAY CHANGE	GE; REFI	ER TO CURI	RENT ELEVATION TABLE					<u></u>

Attachment C Laboratory Analytical Reports and Chain-ofCustody Documentation

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



July 29, 2021

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX

RE: Rodke AOY 1 OrderNo.: 2107A08

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/21/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP1-8

 Project:
 Rodke AOY 1
 Collection Date: 7/19/2021 1:00:00 PM

 Lab ID:
 2107A08-001
 Matrix: SOIL
 Received Date: 7/21/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	8300	300		mg/Kg	100	7/27/2021 8:12:21 AM	61562
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: SB
Diesel Range Organics (DRO)	9300	200		mg/Kg	20	7/22/2021 4:57:44 PM	61471
Motor Oil Range Organics (MRO)	3600	1000		mg/Kg	20	7/22/2021 4:57:44 PM	61471
Surr: DNOP	0	70-130	S	%Rec	20	7/22/2021 4:57:44 PM	61471
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	6700	240		mg/Kg	50	7/23/2021 11:30:12 AM	61466
Surr: BFB	308	70-130	S	%Rec	50	7/23/2021 11:30:12 AM	61466
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	300	4.7		mg/Kg	200	7/23/2021 4:14:40 PM	61466
Toluene	640	9.4		mg/Kg	200	7/23/2021 4:14:40 PM	61466
Ethylbenzene	260	9.4		mg/Kg	200	7/23/2021 4:14:40 PM	61466
Xylenes, Total	250	4.7		mg/Kg	50	7/23/2021 11:30:12 AM	61466
Surr: 4-Bromofluorobenzene	149	70-130	S	%Rec	50	7/23/2021 11:30:12 AM	61466

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

Qualifiers:

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

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

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Date Reported: 7/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP1-15

 Project:
 Rodke AOY 1
 Collection Date: 7/19/2021 1:30:00 PM

 Lab ID:
 2107A08-002
 Matrix: SOIL
 Received Date: 7/21/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	5200	300		mg/Kg	100	7/27/2021 8:49:35 AM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	5600	190		mg/Kg	20	7/22/2021 5:21:33 PM	61471
Motor Oil Range Organics (MRO)	2300	970		mg/Kg	20	7/22/2021 5:21:33 PM	61471
Surr: DNOP	0	70-130	S	%Rec	20	7/22/2021 5:21:33 PM	61471
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	2200	230		mg/Kg	50	7/23/2021 11:53:52 AM	61466
Surr: BFB	242	70-130	S	%Rec	50	7/23/2021 11:53:52 AM	61466
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	11	1.2		mg/Kg	50	7/23/2021 11:53:52 AM	61466
Toluene	160	2.3		mg/Kg	50	7/23/2021 11:53:52 AM	61466
Ethylbenzene	120	2.3		mg/Kg	50	7/23/2021 11:53:52 AM	61466
Xylenes, Total	120	4.6		mg/Kg	50	7/23/2021 11:53:52 AM	61466
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	50	7/23/2021 11:53:52 AM	61466

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

Qualifiers:

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

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

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Date Reported: 7/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP1-20

 Project:
 Rodke AOY 1
 Collection Date: 7/19/2021 2:15:00 PM

 Lab ID:
 2107A08-003
 Matrix: SOIL
 Received Date: 7/21/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	4200	150		mg/Kg	50	7/27/2021 9:02:00 AM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	7200	180		mg/Kg	20	7/22/2021 5:45:22 PM	61471
Motor Oil Range Organics (MRO)	2900	900		mg/Kg	20	7/22/2021 5:45:22 PM	61471
Surr: DNOP	0	70-130	S	%Rec	20	7/22/2021 5:45:22 PM	61471
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	3200	480		mg/Kg	100	7/23/2021 12:17:29 PM	61466
Surr: BFB	192	70-130	S	%Rec	100	7/23/2021 12:17:29 PM	61466
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	29	2.4		mg/Kg	100	7/23/2021 12:17:29 PM	61466
Toluene	210	4.8		mg/Kg	100	7/23/2021 12:17:29 PM	61466
Ethylbenzene	140	4.8		mg/Kg	100	7/23/2021 12:17:29 PM	61466
Xylenes, Total	160	9.6		mg/Kg	100	7/23/2021 12:17:29 PM	61466
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	100	7/23/2021 12:17:29 PM	61466

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

Qualifiers:

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

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

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Date Reported: 7/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP2-2

 Project:
 Rodke AOY 1
 Collection Date: 7/19/2021 3:00:00 PM

 Lab ID:
 2107A08-004
 Matrix: SOIL
 Received Date: 7/21/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	7/27/2021 12:31:50 AM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2021 9:43:34 PM	61471
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/22/2021 9:43:34 PM	61471
Surr: DNOP	131	70-130	S	%Rec	1	7/22/2021 9:43:34 PM	61471
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/23/2021 4:38:14 PM	61466
Surr: BFB	94.1	70-130		%Rec	1	7/23/2021 4:38:14 PM	61466
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	7/23/2021 4:38:14 PM	61466
Toluene	ND	0.050		mg/Kg	1	7/23/2021 4:38:14 PM	61466
Ethylbenzene	ND	0.050		mg/Kg	1	7/23/2021 4:38:14 PM	61466
Xylenes, Total	ND	0.099		mg/Kg	1	7/23/2021 4:38:14 PM	61466
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	7/23/2021 4:38:14 PM	61466

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

Qualifiers:

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

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

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Date Reported: 7/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP2-6

 Project:
 Rodke AOY 1
 Collection Date: 7/19/2021 3:15:00 PM

 Lab ID:
 2107A08-005
 Matrix: SOIL
 Received Date: 7/21/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/27/2021 1:09:05 AM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/22/2021 8:32:19 PM	61471
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/22/2021 8:32:19 PM	61471
Surr: DNOP	111	70-130	%Rec	1	7/22/2021 8:32:19 PM	61471
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/23/2021 5:01:43 PM	61466
Surr: BFB	93.7	70-130	%Rec	1	7/23/2021 5:01:43 PM	61466
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/23/2021 5:01:43 PM	61466
Toluene	ND	0.047	mg/Kg	1	7/23/2021 5:01:43 PM	61466
Ethylbenzene	ND	0.047	mg/Kg	1	7/23/2021 5:01:43 PM	61466
Xylenes, Total	ND	0.095	mg/Kg	1	7/23/2021 5:01:43 PM	61466
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	7/23/2021 5:01:43 PM	61466

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

Qualifiers:

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

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

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Date Reported: 7/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP3-2

 Project:
 Rodke AOY 1
 Collection Date: 7/19/2021 3:40:00 PM

 Lab ID:
 2107A08-006
 Matrix: SOIL
 Received Date: 7/21/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	590	60	mg/Kg	20	7/27/2021 1:21:30 AM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	7/22/2021 8:56:03 PM	61471
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/22/2021 8:56:03 PM	61471
Surr: DNOP	111	70-130	%Rec	1	7/22/2021 8:56:03 PM	61471
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/23/2021 5:25:10 PM	61466
Surr: BFB	92.0	70-130	%Rec	1	7/23/2021 5:25:10 PM	61466
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/23/2021 5:25:10 PM	61466
Toluene	ND	0.049	mg/Kg	1	7/23/2021 5:25:10 PM	61466
Ethylbenzene	ND	0.049	mg/Kg	1	7/23/2021 5:25:10 PM	61466
Xylenes, Total	ND	0.099	mg/Kg	1	7/23/2021 5:25:10 PM	61466
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	7/23/2021 5:25:10 PM	61466

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

Qualifiers:

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

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

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Date Reported: 7/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP3-4

 Project:
 Rodke AOY 1
 Collection Date: 7/19/2021 3:45:00 PM

 Lab ID:
 2107A08-007
 Matrix: SOIL
 Received Date: 7/21/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	300	60	mg/Kg	20	7/27/2021 1:33:55 AM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	7/22/2021 9:19:50 PM	61471
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/22/2021 9:19:50 PM	61471
Surr: DNOP	115	70-130	%Rec	1	7/22/2021 9:19:50 PM	61471
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/23/2021 5:48:46 PM	61466
Surr: BFB	92.4	70-130	%Rec	1	7/23/2021 5:48:46 PM	61466
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/23/2021 5:48:46 PM	61466
Toluene	ND	0.049	mg/Kg	1	7/23/2021 5:48:46 PM	61466
Ethylbenzene	ND	0.049	mg/Kg	1	7/23/2021 5:48:46 PM	61466
Xylenes, Total	ND	0.097	mg/Kg	1	7/23/2021 5:48:46 PM	61466
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	7/23/2021 5:48:46 PM	61466

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

Qualifiers:

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

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

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Date Reported: 7/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP3-7

 Project:
 Rodke AOY 1
 Collection Date: 7/19/2021 3:50:00 PM

 Lab ID:
 2107A08-008
 Matrix: SOIL
 Received Date: 7/21/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: VP
Chloride	93	60	mg/Kg	20	7/27/2021 1:46:20 AM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	7/22/2021 10:07:19 PM	l 61471
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	7/22/2021 10:07:19 PM	61471
Surr: DNOP	116	70-130	%Rec	1	7/22/2021 10:07:19 PM	l 61471
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/23/2021 6:12:16 PM	61466
Surr: BFB	92.7	70-130	%Rec	1	7/23/2021 6:12:16 PM	61466
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/23/2021 6:12:16 PM	61466
Toluene	ND	0.048	mg/Kg	1	7/23/2021 6:12:16 PM	61466
Ethylbenzene	ND	0.048	mg/Kg	1	7/23/2021 6:12:16 PM	61466
Xylenes, Total	ND	0.095	mg/Kg	1	7/23/2021 6:12:16 PM	61466
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	7/23/2021 6:12:16 PM	61466

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107A08 29-Jul-21**

Client: GHD Midland
Project: Rodke AOY 1

Sample ID: MB-61562 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61562 RunNo: 80053

Prep Date: 7/26/2021 Analysis Date: 7/26/2021 SeqNo: 2818288 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61562 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61562 RunNo: 80053

Prep Date: 7/26/2021 Analysis Date: 7/26/2021 SeqNo: 2818289 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107A08**

29-Jul-21

Client: GHD Midland
Project: Rodke AOY 1

Sample ID: MB-61471 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 61471 RunNo: 80001 Prep Date: 7/21/2021 Analysis Date: 7/22/2021 SeqNo: 2815049 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 70 11 111 130

Sample ID: LCS-61471 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 61471 RunNo: 80001 Prep Date: 7/21/2021 Analysis Date: 7/22/2021 SeqNo: 2815051 Units: mg/Kg SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 10 50.00 95.7 68.9 141 Surr: DNOP 3.8 5.000 76.6 70 130

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107A08 29-Jul-21**

Client: GHD Midland
Project: Rodke AOY 1

Sample ID: mb-61466 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61466 RunNo: 80051

Prep Date: 7/21/2021 Analysis Date: 7/23/2021 SeqNo: 2816709 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 960 1000 96.4 70 130

Sample ID: Ics-61466 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61466 RunNo: 80051

1000

Prep Date: 7/21/2021 Analysis Date: 7/23/2021 SeqNo: 2816710 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 101 78.6 131

102

70

130

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107A08**

29-Jul-21

Client: GHD Midland
Project: Rodke AOY 1

Sample ID: mb-61466 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS RunNo: 80051 Batch ID: 61466 Prep Date: 7/21/2021 Analysis Date: 7/23/2021 SeqNo: 2816768 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 0.98 1.000 97.7 70 130 Surr: 4-Bromofluorobenzene

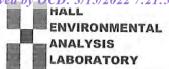
Sample ID: LCS-61466	Samp ⁻	Гуре: LC	s	Tes	iles					
Client ID: LCSS	Batch ID: 61466 RunNo: 80051									
Prep Date: 7/21/2021	Analysis [Date: 7/	23/2021	\$	SeqNo: 2	816769	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.8	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	70	130			

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GHD Midland	Work Order Nu	mber: 210	7A08		RcptNo: 1
Received By: Desiree Dominguez	7/21/2021 7:50:0	O AM		D3	
Completed By: Desiree Dominguez	7/21/2021 9:08:1	3 АМ		TO	
Reviewed By: JA7(21/2)					
Chain of Custody					
1. Is Chain of Custody complete?		Yes	V	No 🗌	Not Present
2. How was the sample delivered?		Cou	rier		
Log In					
3. Was an attempt made to cool the samples?		Yes	V	No 🗌	NA 🗆
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	V	No 🗆	NA 🗆
5. Sample(s) in proper container(s)?		Yes	V	No 🗌	
6. Sufficient sample volume for indicated test(s	3)?	Yes	V	No 🗌	
7. Are samples (except VOA and ONG) proper		Yes	V	No 🗌	
8. Was preservative added to bottles?		Yes		No 🗸	NA 🗆
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes		No 🗆	NA 🗹
10. Were any sample containers received broke	en?	Yes		No 🗸	
and the second					# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No 🗔	for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes	~	No 🗆	Adjusted?
13. Is it clear what analyses were requested?	oudica).	Yes	V	No 🗆	
14. Were all holding times able to be met? (If no, notify customer for authorization.)			V	No 🗆	Checked by: TMC 7-21-24
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes		No 🗌	NA 🗹
Person Notified:	Dat	e: [
By Whom:	Via		ail 🖂	Phone Fax	In Person
Regarding:				. v. v. 🗀 ; **.	
Client Instructions:					
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition S 1 2 4 Good	eal Intact Seal No	Seal Da	ate	Signed By	

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6	
-2	
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0.7	

(Chain	-of-C	ustody Record	Turn-Aro	und Time:		٦.						1	10h	- /						
Client:	GHD		actody iteoord	Stand	lard □ Rus	h 5-la														AL	
				Project N	ame:		7 1			-								K	ric	DRY	
Mailing	g Addres	3:		T R.	ke AOY	2 44 1					WWV										
324 W	Main St	. Suite 10	08, Artesia NM 88210	Project #:	ice AUT	# /	-											7109			
Phone		(505)37		11230052				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
email o	or Fax#:	Becky.H	laskell@ghd.com	Project Manager:				<u> </u>		-				y 515	Ked		6		-		
QA/QC	Package:			Becky Ha			(8024)	A	S		S		, SO4			sent	300	150			
□ Star	ndard		☐ Level 4 (Full Validation)	Tom Lars			8 (8	V >	PCB's		SIM		PO ₄ ,			AP		7-			
			ompliance	Sampler:	Zach Comin	0	TMB's	/DRO/MRO)		7	8270SIMS		NO ₂ ,			sent	He	3			
□ NEL	AC (Type)	□ Other		On Ice:	X Yes	□ No)8/s	504		w			(A)	(Pre	Z	F			
	(Type)			# of Coole Cooler Te		6-0,2=2.40	MTBE)(G	icide	por	310	etal	NO ₃ ,	2	i-VC	Jr.m	9	4			
Date	Time	Matrix	Sample Name	Container Type and	Preservative		RTEX! M	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	Cl, F, Br,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Morial	ş	2		
071921	1300	5	TPI-8	Jew		-001		80	- 00	ш	П.	Ir.	0	00	00			02	+	+	-
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	1500		TP2-2			-004	H	\forall			\dashv						+	+	+	+	-
	1575		TP2-6			-005		\forall			\dashv	1		-	-		+	\dashv	+	+	-
	1540		TP3-2			-006		1		+	\dashv	7	-	-		-	+	-+		+	-
	1545		TP3-4			-007		1		+	+	+		-	-	-	+	+	+	+	
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07202\ Date:	C)SOO	Relinquishe	Course Poll	Possived b	Min	120/21 800		Ma	Tom	v.Lar	son@ uahli	gh n@	d.co	m; Z	ach.	Com	ino@	2ghd	l.com Hask	rell	
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In M	1-100	uu	llin	100	5 Courier	7/21/21 7:50					Direc	ct Bi	ll to	EOG	G Ch	ase S	Settl	е			0



Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Hall Environmental Analysis Laboratory

4901 Hawkins NE

July 28, 2021

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX

RE: Rodke AOY 1 OrderNo.: 2107A89

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/22/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP4-S

 Project:
 Rodke AOY 1
 Collection Date: 7/20/2021 1:15:00 PM

 Lab ID:
 2107A89-001
 Matrix: SOIL
 Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/27/2021 12:44:59 AM	61561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/23/2021 1:37:58 PM	61499
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/23/2021 1:37:58 PM	61499
Surr: DNOP	110	70-130	%Rec	1	7/23/2021 1:37:58 PM	61499
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2021 8:15:00 AM	61496
Surr: BFB	126	70-130	%Rec	1	7/24/2021 8:15:00 AM	61496
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.025	mg/Kg	1	7/24/2021 8:15:00 AM	61496
Toluene	ND	0.050	mg/Kg	1	7/24/2021 8:15:00 AM	61496
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2021 8:15:00 AM	61496
Xylenes, Total	ND	0.10	mg/Kg	1	7/24/2021 8:15:00 AM	61496
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	7/24/2021 8:15:00 AM	61496

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

Qualifiers:

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

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

Page 1 of 13

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP4-2

 Project:
 Rodke AOY 1
 Collection Date: 7/20/2021 1:20:00 PM

 Lab ID:
 2107A89-002
 Matrix: SOIL
 Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/27/2021 12:57:24 AM	61561
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/23/2021 1:47:57 PM	61499
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/23/2021 1:47:57 PM	61499
Surr: DNOP	121	70-130	%Rec	1	7/23/2021 1:47:57 PM	61499
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2021 8:34:00 AM	61496
Surr: BFB	112	70-130	%Rec	1	7/24/2021 8:34:00 AM	61496
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.025	mg/Kg	1	7/24/2021 8:34:00 AM	61496
Toluene	ND	0.050	mg/Kg	1	7/24/2021 8:34:00 AM	61496
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2021 8:34:00 AM	61496
Xylenes, Total	ND	0.10	mg/Kg	1	7/24/2021 8:34:00 AM	61496
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	7/24/2021 8:34:00 AM	61496

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

Qualifiers:

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

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

Page 2 of 13

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-S

 Project:
 Rodke AOY 1
 Collection Date: 7/20/2021 1:40:00 PM

 Lab ID:
 2107A89-003
 Matrix: SOIL
 Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/27/2021 1:09:48 AM	61561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	7/23/2021 1:57:56 PM	61499
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/23/2021 1:57:56 PM	61499
Surr: DNOP	130	70-130	%Rec	1	7/23/2021 1:57:56 PM	61499
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/24/2021 8:54:00 AM	61496
Surr: BFB	116	70-130	%Rec	1	7/24/2021 8:54:00 AM	61496
EPA METHOD 8021B: VOLATILES					Analyst	:: mb
Benzene	ND	0.024	mg/Kg	1	7/24/2021 8:54:00 AM	61496
Toluene	ND	0.049	mg/Kg	1	7/24/2021 8:54:00 AM	61496
Ethylbenzene	ND	0.049	mg/Kg	1	7/24/2021 8:54:00 AM	61496
Xylenes, Total	ND	0.097	mg/Kg	1	7/24/2021 8:54:00 AM	61496
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	7/24/2021 8:54:00 AM	61496

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

Qualifiers:

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

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

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Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-2

 Project:
 Rodke AOY 1
 Collection Date: 7/20/2021 1:50:00 PM

 Lab ID:
 2107A89-004
 Matrix: SOIL
 Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	450	60	mg/Kg	20	7/27/2021 1:22:13 AM	61561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/23/2021 2:07:55 PM	61499
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/23/2021 2:07:55 PM	61499
Surr: DNOP	109	70-130	%Rec	1	7/23/2021 2:07:55 PM	61499
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2021 9:14:00 AM	61496
Surr: BFB	112	70-130	%Rec	1	7/24/2021 9:14:00 AM	61496
EPA METHOD 8021B: VOLATILES					Analyst	:: mb
Benzene	ND	0.025	mg/Kg	1	7/24/2021 9:14:00 AM	61496
Toluene	ND	0.050	mg/Kg	1	7/24/2021 9:14:00 AM	61496
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2021 9:14:00 AM	61496
Xylenes, Total	ND	0.099	mg/Kg	1	7/24/2021 9:14:00 AM	61496
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	7/24/2021 9:14:00 AM	61496

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

Qualifiers:

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

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

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Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP6-S

 Project:
 Rodke AOY 1
 Collection Date: 7/20/2021 2:00:00 PM

 Lab ID:
 2107A89-005
 Matrix: SOIL
 Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/27/2021 1:34:37 AM	61561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/24/2021 4:39:51 PM	61499
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/24/2021 4:39:51 PM	61499
Surr: DNOP	104	70-130	%Rec	1	7/24/2021 4:39:51 PM	61499
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/24/2021 9:34:00 AM	61496
Surr: BFB	111	70-130	%Rec	1	7/24/2021 9:34:00 AM	61496
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.025	mg/Kg	1	7/24/2021 9:34:00 AM	61496
Toluene	ND	0.049	mg/Kg	1	7/24/2021 9:34:00 AM	61496
Ethylbenzene	ND	0.049	mg/Kg	1	7/24/2021 9:34:00 AM	61496
Xylenes, Total	ND	0.098	mg/Kg	1	7/24/2021 9:34:00 AM	61496
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	7/24/2021 9:34:00 AM	61496

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

Qualifiers:

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

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

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Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP6-2

 Project:
 Rodke AOY 1
 Collection Date: 7/20/2021 2:10:00 PM

 Lab ID:
 2107A89-006
 Matrix: SOIL
 Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	91	60	mg/Kg	20	7/27/2021 1:47:02 AM	61561
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/23/2021 2:27:50 PM	61499
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/23/2021 2:27:50 PM	61499
Surr: DNOP	86.6	70-130	%Rec	1	7/23/2021 2:27:50 PM	61499
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2021 9:54:00 AM	61496
Surr: BFB	114	70-130	%Rec	1	7/24/2021 9:54:00 AM	61496
EPA METHOD 8021B: VOLATILES					Analyst	:: mb
Benzene	ND	0.025	mg/Kg	1	7/24/2021 9:54:00 AM	61496
Toluene	ND	0.050	mg/Kg	1	7/24/2021 9:54:00 AM	61496
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2021 9:54:00 AM	61496
Xylenes, Total	ND	0.10	mg/Kg	1	7/24/2021 9:54:00 AM	61496
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	7/24/2021 9:54:00 AM	61496

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

Qualifiers:

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

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

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Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-8

 Project:
 Rodke AOY 1
 Collection Date: 7/20/2021 2:55:00 PM

 Lab ID:
 2107A89-007
 Matrix: SOIL
 Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	390	60		mg/Kg	20	7/27/2021 1:59:26 AM	61561
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: CLP
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	7/23/2021 2:37:46 PM	61499
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/23/2021 2:37:46 PM	61499
Surr: DNOP	166	70-130	S	%Rec	1	7/23/2021 2:37:46 PM	61499
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2021 10:14:00 AM	61496
Surr: BFB	113	70-130		%Rec	1	7/24/2021 10:14:00 AM	61496
EPA METHOD 8021B: VOLATILES						Analyst	: mb
Benzene	ND	0.025		mg/Kg	1	7/24/2021 10:14:00 AM	61496
Toluene	ND	0.050		mg/Kg	1	7/24/2021 10:14:00 AM	61496
Ethylbenzene	ND	0.050		mg/Kg	1	7/24/2021 10:14:00 AM	61496
Xylenes, Total	ND	0.10		mg/Kg	1	7/24/2021 10:14:00 AM	61496
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	7/24/2021 10:14:00 AM	61496

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

Qualifiers:

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

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

Page 7 of 13

Date Reported: 7/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-14

 Project:
 Rodke AOY 1
 Collection Date: 7/20/2021 3:20:00 PM

 Lab ID:
 2107A89-008
 Matrix: SOIL
 Received Date: 7/22/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	66	60	mg/Kg	20	7/26/2021 9:25:38 PM	61562
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/23/2021 3:17:02 PM	61500
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/23/2021 3:17:02 PM	61500
Surr: DNOP	105	70-130	%Rec	1	7/23/2021 3:17:02 PM	61500
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/24/2021 10:34:00 AM	61496
Surr: BFB	117	70-130	%Rec	1	7/24/2021 10:34:00 AM	61496
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.024	mg/Kg	1	7/24/2021 10:34:00 AM	61496
Toluene	ND	0.049	mg/Kg	1	7/24/2021 10:34:00 AM	61496
Ethylbenzene	ND	0.049	mg/Kg	1	7/24/2021 10:34:00 AM	61496
Xylenes, Total	ND	0.098	mg/Kg	1	7/24/2021 10:34:00 AM	61496
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	7/24/2021 10:34:00 AM	61496

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107A89**

28-Jul-21

Client: GHD Midland Project: Rodke AOY 1

Sample ID: MB-61562 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61562 RunNo: 80053

Prep Date: 7/26/2021 Analysis Date: 7/26/2021 SeqNo: 2818288 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61562 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61562 RunNo: 80053

Prep Date: 7/26/2021 Analysis Date: 7/26/2021 SeqNo: 2818289 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 90 110

Sample ID: MB-61561 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61561 RunNo: 80086

Prep Date: **7/26/2021** Analysis Date: **7/26/2021** SeqNo: **2818870** Units: **mg/Kg**

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

Chloride ND 1.5

Sample ID: LCS-61561 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61561 RunNo: 80086

Prep Date: 7/26/2021 Analysis Date: 7/26/2021 SeqNo: 2818871 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.3 90 110

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107A89**

28-Jul-21

Project:	Rodke AOY 1
Client:	GHD Midland

Sample ID: MB-61499	SampType: N	IBLK	Tes	tCode: EPA Met	thod 8015M/D: Die	esel Range	Organics	
Client ID: PBS	Batch ID: 6	1499	F	RunNo: 80042				
Prep Date: 7/22/2021	Analysis Date:	7/23/2021	8	SeqNo: 281640 2	2 Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1)						
Motor Oil Range Organics (MRO)	ND 5)						
Surr: DNOP	13	10.00		129	70 130			
Sample ID: LCS-61499	SampType: L	cs	Tes	tCode: EPA Met	thod 8015M/D: Die	esel Range	Organics	
Client ID: LCSS	Batch ID: 6	1499	F	RunNo: 80042				
Prep Date: 7/22/2021	Analysis Date:	7/23/2021	9	SeqNo: 2816403	3 Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51 1	50.00	0	103	68.9 141			
Surr: DNOP	4.4	5.000		87.3	70 130			
Sample ID: MB-61500	SampType: N	IBLK	Tes	tCode: EPA Met	thod 8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 6	1500	F	RunNo: 80042				
Prep Date: 7/22/2021	Analysis Date:	7/23/2021	\$	SeqNo: 2816425	5 Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1)						
Motor Oil Range Organics (MRO)	ND 50)						
Surr: DNOP	9.8	10.00		97.7	70 130			
Sample ID: LCS-61500	SampType: L	cs	Tes	tCode: EPA Met	thod 8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 6	1500	F	RunNo: 80042				
Prep Date: 7/22/2021	Analysis Date:	7/23/2021	8	SeqNo: 2816426	6 Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54 1	50.00	0	109	68.9 141			
Surr: DNOP	4.0	5.000		80.7	70 130			
Sample ID: 2107A89-008AMS	SampType: N	IS	Tes	tCode: EPA Me t	thod 8015M/D: Die	esel Range	e Organics	
Client ID: TP5-14	Batch ID: 6	1500	F	RunNo: 80042				
Prep Date: 7/22/2021	Analysis Date:	7/23/2021	S	SeqNo: 2816428	8 Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48 9.	5 47.62	0	102	15 184			
Surr: DNOP	3.9	4.762		82.0	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 Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107A89**

Qual

28-Jul-21

Client: GHD Midland Project: Rodke AOY 1

Sample ID: 2107A89-008AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **TP5-14** Batch ID: **61500** RunNo: **80042**

Prep Date: 7/22/2021 Analysis Date: 7/23/2021 SeqNo: 2816429 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
Diesel Range Organics (DRO)	50	9.1	45.62	0	110	15	184	3.77	23.9	
Surr: DNOP	4.1		4.562		88.9	70	130	0	0	

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107A89**

28-Jul-21

Client: GHD Midland Project: Rodke AOY 1

Sample ID: mb-61491 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61491 RunNo: 80029

Prep Date: 7/22/2021 Analysis Date: 7/23/2021 SeqNo: 2818753 Units: %Rec

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

Surr: BFB 1200 1000 120 70 130

Sample ID: mb-61496 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **61496** RunNo: **80029**

Prep Date: 7/22/2021 Analysis Date: 7/24/2021 SeqNo: 2818754 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 ND
 5.0

 Surr: BFB
 1100
 1000
 113
 70
 130

Suil. BFB 1100 1000 113 70 130

Sample ID: Ics-61491 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61491 RunNo: 80029

Prep Date: 7/22/2021 Analysis Date: 7/23/2021 SeqNo: 2818755 Units: %Rec

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

Surr: BFB 1300 1000 127 70 130

Sample ID: Ics-61496 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61496 RunNo: 80029

Prep Date: 7/22/2021 Analysis Date: 7/24/2021 SeqNo: 2818757 Units: mq/Kq

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

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 87.9
 78.6
 131

 Surr: BFB
 1300
 1000
 126
 70
 130

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2107A89

28-Jul-21

Client: GHD Midland **Project:** Rodke AOY 1

Sample ID: mb-61491 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 61491 RunNo: 80029

Prep Date: 7/22/2021 Analysis Date: 7/23/2021 SeqNo: 2818955 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.2 1.000 118 70 130

Sample ID: mb-61496 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 61496 RunNo: 80029

Prep Date: 7/22/2021 Analysis Date: 7/24/2021 SeqNo: 2818956 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result PQL HighLimit %RPD Qual Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

112

70

130

1.000 Surr: 4-Bromofluorobenzene

Sample ID: Ics-61491 TestCode: EPA Method 8021B: Volatiles SampType: LCS

Client ID: LCSS Batch ID: 61491 RunNo: 80029

1.1

Prep Date: 7/22/2021 Analysis Date: 7/23/2021 SeqNo: 2818957 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.2 1.000 116 70 130

Sample ID: Ics-61496 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 61496 RunNo: 80029

Prep Date: 7/22/2021 Analysis Date: 7/24/2021 SeqNo: 2818959 Units: mg/Kg LowLimit Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Benzene 0.93 0.025 1.000 0 92.6 80 120 0.050 1.000 0 93.0 80 120 Toluene 0.93 Ethylbenzene 0.95 0.050 1.000 0 94.8 80 120 Xylenes, Total 2.9 0.10 3.000 0 95.2 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000 114 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 13 of 13



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GHD Midland	Work Order Number	210	7A89			RcptNo: 1
Received By: Juan Rojas	7/22/2021 7:30:00 AM			Hume	3	
Completed By: Isaiah Ortiz	7/22/2021 7:55:27 AM			I.	0	4
Reviewed By: SPA 7,22.	2(7.5%
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	No		Not Present
2. How was the sample delivered?		Cou	rier			
Log In						
Was an attempt made to cool the sample	es?	Yes	✓	No		NA 🗆
4. Were all samples received at a temperate	ure of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in proper container(s)?		Yes	V	No		
6. Sufficient sample volume for indicated tes	st(s)?	Yes	~	No [
7. Are samples (except VOA and ONG) proj		Yes	✓	No [
8. Was preservative added to bottles?		Yes		No 5	~	NA 🗆
9. Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes		No [NA 🗹
10. Were any sample containers received bro	oken?	Yes		No !	V	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	✓	No [# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain	of Custody?	Yes	V	No [Adjusted?
13. Is it clear what analyses were requested?		Yes	V	No [122-b-1
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	V	No [enecked by: JR 7/22/2/
Special Handling (if applicable)						
15. Was client notified of all discrepancies w	ith this order?	Yes		No		NA 🗹
Person Notified:	Date:				-	
By Whom:	Via:	eM	ail 🔲	Phone	Fax	☐ In Person
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. Cooler Information						
Cooler No Temp °C Condition		Seal D	ate	Signed B	у	
1 5.8 Good	Not Present					

C	hain	-of-Cu	stody Record	Turn-Around	d Time:		1												٠	
Client:				☐ Standard		3Day												RAT		
Mailing	Address	3:			A07 #	F 1		40	04 11					/iron						
324 W.	Main St	. Suite 10	8, Artesia NM 88210	Project #:	11012				01 H el. 50								M 871 -4107			
Phone	#:	(505)377	7-4218	1173	5200							A	nal	ysis	Req	uest	1			
email o	r Fax#:	Becky.H	askell@ghd.com	Project Man	ager:		=	6					SO4			Jt)				
QA/QC □ Star	Package: ndard		□ Level 4 (Full Validation)	Becky Hask Tom Larson			TMB's (8021)	O/MR	PCB's		SMISC		PO4,			ıt/Abseı	500			
□ NEL	AC	☐ Az Co☐ Other	mpliance	Sampler: On Ice:	Zach-Coming X Yes	o Heath Boyd □ No	-	RO / DR	s/8082	504.1)	or 827	σ.	, NO ₂ ,		(A)	(Preser	dethod			
	(Type)	T		# of Coolers	2		置	GF	cide	bo	310	etal	Š	_	-N	LI.	N			
Date	Time	Matrix	Sample Name	Cooler Temp Container Type and #	Preservative Type	1.5-0.156.8 HEAL NO. ZIO7A89	BTEX / MTBE	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI, F, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method			
7/20/21	1315	5	TP4-5	402. Jan 1	N/A	001	K	K									K			*
	1320	1	TP4-2			SOS	V	K									K			
	1340		TP5-5			<i>(</i> 203	X	X									4			
	1350		TP5-2			004	X	*									X			
	1400		TP6-5			005	X	K									×			
	1410		TP6-2			006	4	X									K			
1	1455		TP5-8			001	K	4									X			
×	1520	×	TP.5-14	X	1	008	X	X									8			
																7.1				
-											_									
Date: 7/21/21 Date: 7/21/21	900	Relinquish	23	Received by:	Via:	Date Time				on@	ghd. Be	.com	n; Za Has	ch.C skell	Comi liste	no@ d ab	ghd.c	resource com: Al		
121/21	1900	acc	mj	Ma	Lowier	7/22/21 7:30					2110		0		0 01	1430	Jour	1		



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

OrderNo.: 2109006

September 08, 2021

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

FAX:

RE: Rodke AOY 1

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 13 sample(s) on 9/1/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP7-S

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 8:00:00 AM

 Lab ID:
 2109006-001
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	61	mg/Kg	20	9/3/2021 6:16:02 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/3/2021 8:35:47 PM	62355
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/3/2021 8:35:47 PM	62355
Surr: DNOP	106	70-130	%Rec	1	9/3/2021 8:35:47 PM	62355
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/2/2021 6:06:11 PM	62338
Surr: BFB	111	70-130	%Rec	1	9/2/2021 6:06:11 PM	62338
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	9/2/2021 6:06:11 PM	62338
Toluene	ND	0.047	mg/Kg	1	9/2/2021 6:06:11 PM	62338
Ethylbenzene	ND	0.047	mg/Kg	1	9/2/2021 6:06:11 PM	62338
Xylenes, Total	ND	0.093	mg/Kg	1	9/2/2021 6:06:11 PM	62338
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/2/2021 6:06:11 PM	62338

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

Qualifiers:

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

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

Page 1 of 18

Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP7-2

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 8:10:00 AM

 Lab ID:
 2109006-002
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	ND	60	mg/Kg	20	9/3/2021 6:53:15 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/3/2021 8:55:49 PM	62355
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/3/2021 8:55:49 PM	62355
Surr: DNOP	101	70-130	%Rec	1	9/3/2021 8:55:49 PM	62355
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/2/2021 6:29:50 PM	62338
Surr: BFB	111	70-130	%Rec	1	9/2/2021 6:29:50 PM	62338
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	9/2/2021 6:29:50 PM	62338
Toluene	ND	0.046	mg/Kg	1	9/2/2021 6:29:50 PM	62338
Ethylbenzene	ND	0.046	mg/Kg	1	9/2/2021 6:29:50 PM	62338
Xylenes, Total	ND	0.093	mg/Kg	1	9/2/2021 6:29:50 PM	62338
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/2/2021 6:29:50 PM	62338

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

Qualifiers:

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

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

Page 2 of 18

Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP8-S

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 8:25:00 AM

 Lab ID:
 2109006-003
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/3/2021 7:05:40 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/3/2021 9:15:50 PM	62355
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/3/2021 9:15:50 PM	62355
Surr: DNOP	99.7	70-130	%Rec	1	9/3/2021 9:15:50 PM	62355
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/2/2021 6:53:24 PM	62338
Surr: BFB	111	70-130	%Rec	1	9/2/2021 6:53:24 PM	62338
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	9/2/2021 6:53:24 PM	62338
Toluene	ND	0.048	mg/Kg	1	9/2/2021 6:53:24 PM	62338
Ethylbenzene	ND	0.048	mg/Kg	1	9/2/2021 6:53:24 PM	62338
Xylenes, Total	ND	0.095	mg/Kg	1	9/2/2021 6:53:24 PM	62338
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/2/2021 6:53:24 PM	62338

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

Qualifiers:

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

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

Page 3 of 18

Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP8-2

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 8:35:00 AM

 Lab ID:
 2109006-004
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	ND	60	mg/Kg	20	9/3/2021 7:18:04 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/3/2021 9:25:57 PM	62355
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/3/2021 9:25:57 PM	62355
Surr: DNOP	101	70-130	%Rec	1	9/3/2021 9:25:57 PM	62355
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2021 7:17:03 PM	62338
Surr: BFB	112	70-130	%Rec	1	9/2/2021 7:17:03 PM	62338
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	9/2/2021 7:17:03 PM	62338
Toluene	ND	0.049	mg/Kg	1	9/2/2021 7:17:03 PM	62338
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2021 7:17:03 PM	62338
Xylenes, Total	ND	0.098	mg/Kg	1	9/2/2021 7:17:03 PM	62338
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/2/2021 7:17:03 PM	62338

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

Qualifiers:

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

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

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Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP9-S

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 8:40:00 AM

 Lab ID:
 2109006-005
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	ND	60	mg/Kg	20	9/3/2021 7:30:28 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/3/2021 9:36:04 PM	62355
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/3/2021 9:36:04 PM	62355
Surr: DNOP	102	70-130	%Rec	1	9/3/2021 9:36:04 PM	62355
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/2/2021 7:40:40 PM	62338
Surr: BFB	112	70-130	%Rec	1	9/2/2021 7:40:40 PM	62338
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	9/2/2021 7:40:40 PM	62338
Toluene	ND	0.048	mg/Kg	1	9/2/2021 7:40:40 PM	62338
Ethylbenzene	ND	0.048	mg/Kg	1	9/2/2021 7:40:40 PM	62338
Xylenes, Total	ND	0.095	mg/Kg	1	9/2/2021 7:40:40 PM	62338
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	9/2/2021 7:40:40 PM	62338

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

Qualifiers:

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

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

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Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP9-2

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 8:50:00 AM

 Lab ID:
 2109006-006
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	110	60	mg/Kg	20	9/3/2021 7:42:52 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/3/2021 9:46:08 PM	62355
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/3/2021 9:46:08 PM	62355
Surr: DNOP	96.1	70-130	%Rec	1	9/3/2021 9:46:08 PM	62355
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/2/2021 8:04:16 PM	62338
Surr: BFB	110	70-130	%Rec	1	9/2/2021 8:04:16 PM	62338
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	9/2/2021 8:04:16 PM	62338
Toluene	ND	0.047	mg/Kg	1	9/2/2021 8:04:16 PM	62338
Ethylbenzene	ND	0.047	mg/Kg	1	9/2/2021 8:04:16 PM	62338
Xylenes, Total	ND	0.095	mg/Kg	1	9/2/2021 8:04:16 PM	62338
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/2/2021 8:04:16 PM	62338

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

Qualifiers:

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

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

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Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP10-S

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 9:00:00 AM

 Lab ID:
 2109006-007
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/3/2021 8:20:06 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/3/2021 9:56:12 PM	62355
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/3/2021 9:56:12 PM	62355
Surr: DNOP	91.0	70-130	%Rec	1	9/3/2021 9:56:12 PM	62355
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/2/2021 8:27:51 PM	62338
Surr: BFB	111	70-130	%Rec	1	9/2/2021 8:27:51 PM	62338
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	9/2/2021 8:27:51 PM	62338
Toluene	ND	0.048	mg/Kg	1	9/2/2021 8:27:51 PM	62338
Ethylbenzene	ND	0.048	mg/Kg	1	9/2/2021 8:27:51 PM	62338
Xylenes, Total	ND	0.096	mg/Kg	1	9/2/2021 8:27:51 PM	62338
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/2/2021 8:27:51 PM	62338

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

Qualifiers:

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

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

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Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP10-2

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 9:10:00 AM

 Lab ID:
 2109006-008
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/3/2021 8:32:30 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/3/2021 11:04:16 AM	62364
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/3/2021 11:04:16 AM	62364
Surr: DNOP	124	70-130	%Rec	1	9/3/2021 11:04:16 AM	62364
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/3/2021 8:56:23 AM	62360
Surr: BFB	111	70-130	%Rec	1	9/3/2021 8:56:23 AM	62360
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/3/2021 8:56:23 AM	62360
Toluene	ND	0.049	mg/Kg	1	9/3/2021 8:56:23 AM	62360
Ethylbenzene	ND	0.049	mg/Kg	1	9/3/2021 8:56:23 AM	62360
Xylenes, Total	ND	0.098	mg/Kg	1	9/3/2021 8:56:23 AM	62360
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/3/2021 8:56:23 AM	62360

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

Qualifiers:

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

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

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Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP11-6

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 9:25:00 AM

 Lab ID:
 2109006-009
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	67	60		mg/Kg	20	9/3/2021 8:44:54 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	SB
Diesel Range Organics (DRO)	5800	99		mg/Kg	10	9/3/2021 11:52:01 AM	62364
Motor Oil Range Organics (MRO)	2600	500		mg/Kg	10	9/3/2021 11:52:01 AM	62364
Surr: DNOP	0	70-130	S	%Rec	10	9/3/2021 11:52:01 AM	62364
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	240	97		mg/Kg	20	9/3/2021 10:07:19 AM	62360
Surr: BFB	175	70-130	S	%Rec	20	9/3/2021 10:07:19 AM	62360
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.49		mg/Kg	20	9/3/2021 10:07:19 AM	62360
Toluene	ND	0.97		mg/Kg	20	9/3/2021 10:07:19 AM	62360
Ethylbenzene	ND	0.97		mg/Kg	20	9/3/2021 10:07:19 AM	62360
Xylenes, Total	ND	1.9		mg/Kg	20	9/3/2021 10:07:19 AM	62360
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	20	9/3/2021 10:07:19 AM	62360

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

Qualifiers:

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

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

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Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP11-10

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 9:40:00 AM

 Lab ID:
 2109006-010
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	87	61	mg/Kg	20	9/3/2021 8:57:18 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/3/2021 11:13:55 AM	62364
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/3/2021 11:13:55 AM	62364
Surr: DNOP	122	70-130	%Rec	1	9/3/2021 11:13:55 AM	62364
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/3/2021 10:54:28 AM	62360
Surr: BFB	113	70-130	%Rec	1	9/3/2021 10:54:28 AM	62360
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	9/3/2021 10:54:28 AM	62360
Toluene	ND	0.048	mg/Kg	1	9/3/2021 10:54:28 AM	62360
Ethylbenzene	ND	0.048	mg/Kg	1	9/3/2021 10:54:28 AM	62360
Xylenes, Total	ND	0.096	mg/Kg	1	9/3/2021 10:54:28 AM	62360
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	9/3/2021 10:54:28 AM	62360

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

Qualifiers:

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

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

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Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP11-12

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 9:50:00 AM

 Lab ID:
 2109006-011
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	86	59	mg/Kg	20	9/3/2021 9:09:43 PM	62384
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/3/2021 11:23:36 AM	62364
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/3/2021 11:23:36 AM	62364
Surr: DNOP	123	70-130	%Rec	1	9/3/2021 11:23:36 AM	62364
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/3/2021 11:18:01 AM	62360
Surr: BFB	116	70-130	%Rec	1	9/3/2021 11:18:01 AM	62360
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	9/3/2021 11:18:01 AM	62360
Toluene	ND	0.048	mg/Kg	1	9/3/2021 11:18:01 AM	62360
Ethylbenzene	ND	0.048	mg/Kg	1	9/3/2021 11:18:01 AM	62360
Xylenes, Total	ND	0.096	mg/Kg	1	9/3/2021 11:18:01 AM	62360
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	9/3/2021 11:18:01 AM	62360

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

Qualifiers:

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

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

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Analytical Report Lab Order 2109006

Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP11-15

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 10:00:00 AM

 Lab ID:
 2109006-012
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	82	60	mg/Kg	20	9/3/2021 11:50:58 PM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	93	9.7	mg/Kg	1	9/3/2021 11:34:09 AM	62364
Motor Oil Range Organics (MRO)	63	48	mg/Kg	1	9/3/2021 11:34:09 AM	62364
Surr: DNOP	120	70-130	%Rec	1	9/3/2021 11:34:09 AM	62364
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/3/2021 11:41:37 AM	62360
Surr: BFB	121	70-130	%Rec	1	9/3/2021 11:41:37 AM	62360
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	9/3/2021 11:41:37 AM	62360
Toluene	ND	0.047	mg/Kg	1	9/3/2021 11:41:37 AM	62360
Ethylbenzene	ND	0.047	mg/Kg	1	9/3/2021 11:41:37 AM	62360
Xylenes, Total	ND	0.093	mg/Kg	1	9/3/2021 11:41:37 AM	62360
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	9/3/2021 11:41:37 AM	62360

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

Qualifiers:

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

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

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Analytical Report Lab Order 2109006

Date Reported: 9/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP11-20

 Project:
 Rodke AOY 1
 Collection Date: 8/30/2021 10:25:00 AM

 Lab ID:
 2109006-013
 Matrix: SOIL
 Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	200	60	mg/Kg	20	9/4/2021 12:03:22 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/3/2021 11:43:51 AM	62364
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/3/2021 11:43:51 AM	62364
Surr: DNOP	112	70-130	%Rec	1	9/3/2021 11:43:51 AM	62364
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/3/2021 12:05:16 PM	62360
Surr: BFB	118	70-130	%Rec	1	9/3/2021 12:05:16 PM	62360
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	9/3/2021 12:05:16 PM	62360
Toluene	ND	0.046	mg/Kg	1	9/3/2021 12:05:16 PM	62360
Ethylbenzene	ND	0.046	mg/Kg	1	9/3/2021 12:05:16 PM	62360
Xylenes, Total	ND	0.092	mg/Kg	1	9/3/2021 12:05:16 PM	62360
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	9/3/2021 12:05:16 PM	62360

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109006 09-Sep-21**

Client: GHD Midland
Project: Rodke AOY 1

Sample ID: MB-62384 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 62384 RunNo: 81060

Prep Date: 9/3/2021 Analysis Date: 9/3/2021 SeqNo: 2861006 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-62384 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 62384 RunNo: 81060

Prep Date: 9/3/2021 Analysis Date: 9/3/2021 SeqNo: 2861007 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 90 110

Sample ID: MB-62387 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 62387 RunNo: 81060

Prep Date: 9/3/2021 Analysis Date: 9/3/2021 SeqNo: 2861038 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-62387 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 62387 RunNo: 81060

Prep Date: 9/3/2021 Analysis Date: 9/3/2021 SeqNo: 2861039 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.1 90 110

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Result

51

5.4

PQL

10

SPK value SPK Ref Val

0

50.00

5.000

WO#: **2109006** *09-Sep-21*

Client: GHD Midland
Project: Rodke AOY 1

Project: Roake A	AOTI										
Sample ID: MB-62355	SampType:	MBLK	Test0	Code: EP	A Method	8015M/D: Die	esel Range	e Organics			
Client ID: PBS	Batch ID:	62355	Ru	unNo: 810	036						
Prep Date: 9/2/2021	Analysis Date:	9/3/2021	Se	eqNo: 286	60688	Units: mg/Kg					
Analyte	Result PC	L 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		103	70	130					
Sample ID: MB-62364	SampType:	MBLK	Test	Code: EP	A Method	8015M/D: Die	esel Range	e Organics			
Client ID: PBS	Batch ID:	62364	Ru	unNo: 810	036						
Prep Date: 9/2/2021	Analysis Date:	9/3/2021	Se	eqNo: 286	60689	Units: mg/K	ζg				
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	12	10.00		122	70	130					
Sample ID: LCS-62355	SampType:	LCS	Test0	Code: EP	A Method	8015M/D: Die	esel Range	e Organics			
Client ID: LCSS	Batch ID:	62355	Ru	unNo: 810	036						
Prep Date: 9/2/2021	Analysis Date:	9/3/2021	Se	eqNo: 286	60691	Units: mg/k	(g				
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	48	10 50.00	0	95.9	68.9	135					
Surr: DNOP	4.0	5.000		80.2	70	130					
Sample ID: LCS-62364	SampType:	LCS	Test	Code: EP	A Method	8015M/D: Die	esel Range	e Organics			
Client ID: LCSS	Ru	unNo: 810	036								
Prep Date: 9/2/2021	Se	eqNo: 286	60692	Units: mg/k	(g						

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

Diesel Range Organics (DRO)

Surr: DNOP

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

%REC

102

108

LowLimit

68.9

70

HighLimit

135

130

%RPD

RPDLimit

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109006**

09-Sep-21

Client:	GHD Midland
Project:	Rodke AOY 1

Project: Rouke A	011												
Sample ID: mb-62338	SampTyp	e: MB	LK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e				
Client ID: PBS	Batch II	D: 623	38	R	tunNo: 8	1017							
Prep Date: 9/1/2021	Analysis Dat	te: 9/2	2/2021	S	SeqNo: 2	859296	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	1100		1000		111	70	130						
Sample ID: Ics-62338	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е				
Client ID: LCSS	Batch II	D: 623	38	R	RunNo: 81017								
Prep Date: 9/1/2021	Analysis Dat	te: 9/2	2/2021	S	SeqNo: 2	859297	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131						
Surr: BFB	1200		1000		121	70	130						
Sample ID: mb-62360	SampTyp	e: MB	LK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е				
Client ID: PBS	Batch II	D: 623	60	R	lunNo: 8	1062							
Prep Date: 9/2/2021	2021 Analysis Date: 9/3/2021 SeqNo: 286107					861079	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	1100		1000		110	70	130						
Sample ID: Ics-62360	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е				
Client ID: LCSS	Batch II	D: 623	60	R	lunNo: 8	1062							
Prep Date: 9/2/2021	Analysis Dat	te: 9/3	3/2021	S	SeqNo: 2	861080	Units: mg/h	(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	105	78.6	131						
Surr: BFB	1200		1000		120	70	130						
Sample ID: 2109006-008ams	SampTyp	e: MS		Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е				
Client ID: TP10-2	Batch II	D: 623	60	R	lunNo: 8	1062							
Prep Date: 9/2/2021	Analysis Dat	te: 9/3	3/2021	S	SeqNo: 2	861082	Units: mg/h	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	31	4.7	23.70	0	129	61.3	114			S			
Surr: BFB	1200		947.9		124	70	130						
Sample ID: 2109006-008amsc	ample ID: 2109006-008amsd SampType: MSD					TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TP10-2	Batch II	D: 623	60	R	lunNo: 8	1062	1062						
Prep Date: 9/2/2021	Analysis Dat	te: 9/3	3/2021	S	SeqNo: 2	2861083 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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109006**

09-Sep-21

Client: GHD Midland
Project: Rodke AOY 1

Client ID: TP10-2

Sample ID: 2109006-008amsd SampType: MSD

Batch ID: **62360** RunNo: **81062**

Prep Date: 9/2/2021 Analysis Date: 9/3/2021 SeqNo: 2861083 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0 61.3 19.9 20 Gasoline Range Organics (GRO) 25 5.0 24.93 100 114 Surr: BFB 1200 997.0 121 70 130 0 0

TestCode: EPA Method 8015D: Gasoline Range

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109006**

09-Sep-21

Client: GHD Midland Project: Rodke AOY 1

Sample ID: mb-62338	Sample ID: mb-62338 SampType: MBL			Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 62 :	338	R	tunNo: 8	1017				
Prep Date: 9/1/2021	Analysis D	ate: 9/	2/2021	SeqNo: 2859341 l			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	1.0		1.000		102	70	130			

Sample ID: LCS-62338 SampType: LCS				TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batc	h ID: 62 :	338	F							
Prep Date: 9/1/2021	Prep Date: 9/1/2021 Analysis Date: 9/2/2021			8	SeqNo: 2	859342	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.025	1.000	0	94.4	80	120				
Toluene	0.95	0.050	1.000	0	95.2	80	120				
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120				
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130				

Sample ID: mb-62360	ple ID: mb-62360 SampType: MBLK				TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: 62 :	360	F	RunNo: 8	1062					
Prep Date: 9/2/2021	Analysis D	ate: 9/	3/2021	S	SeqNo: 28	861106	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	1.0		1.000		101	70	130				

Sample ID: LCS-62360	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	n ID: 62 3	360	F						
Prep Date: 9/2/2021	Analysis D	ate: 9/ 3	3/2021	9	SeqNo: 2	861107	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.9	80	120			
Toluene	0.95	0.050	1.000	0	94.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	GHD Midland	Work Order Numbe	r: 210	9006		RcptNo: 1	ŦN
Received By:	Cheyenne Cason	9/1/2021 7:30:00 AM			Chul		
Completed By:	Sean Livingston	9/1/2021 9:09:40 AM			Chul		
Reviewed By:	cmc	9/1/4			20-6	John	
Chain of Cust	<u>ody</u>						
1. Is Chain of Cu	stody complete?		Yes	V	No 🗌	Not Present	
2. How was the s	ample delivered?		Cou	rier			
Log In							
	ot made to cool the sam	ples?	Yes	~	No 🗌	NA 🗌	
4. Were all sampl	es received at a temper	rature of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗔	
5. Sample(s) in p	roper container(s)?		Yes	V	No 🗌		
6. Sufficient samp	ole volume for indicated	test(s)?	Yes	~	No 🗌		
7. Are samples (e	xcept VOA and ONG) p	roperly preserved?	Yes	V	No 🗌		
8. Was preservati	ve added to bottles?		Yes		No 🗸	NA 🗌	
9. Received at lea	st 1 vial with headspace	e <1/4" for AQ VOA?	Yes		No 🗌	NA 🔽	
10. Were any sam	ple containers received	broken?	Yes		No 🗸	# of preserved	
	k match bottle labels? ncies on chain of custod	(y)	Yes	~	No 🔲	bottles checked for pH: (<2 or >12 unless noted)	/
	rrectly identified on Cha		Yes	V	No 🗌	Adjusted?	
13. Is it clear what	analyses were requeste	d?	Yes	~	No 🗆	/	
	g times able to be met? stomer for authorization.		Yes	V	No 🗌	Checked by: In 9(1)	2
Special Handlii	ng (if applicable)						
15. Was client noti	fied of all discrepancies	with this order?	Yes		No 🔲	NA 🗹	
Person N	lotified:	Date:					
By Whon	n:	Via:	eM	ail	Phone Fax	In Person	
Regardin	g:						
Client Ins	structions:						
16. Additional rem	arks:						
17. <u>Cooler Inform</u> Cooler No	nation Temp °C Condition 2.4 Good	Seal Intact Seal No S	Seal D	ate	Signed By		

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Client:	GHD			Standa	rd 🗆 Rush	5-day												RAT		
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324 W.	Main St.	Suite 10	8, Artesia NM 88210	Project #:	isc rio	· · · · · · · · · · · · · · · · · · ·	1			5-34							4107	00		
Phone		(505)377		11	230052							_	1			uest				
email o	r Fax#:	Becky.H	askell@ghd.com	Project Mar			3	6					SO4			t)	0	T	1	
QA/QC	Package:		☐ Level 4 (Full Validation)	Becky Hask Tom Larson			s (8024)	O/MRO)	PCB's		8270SIMS		PO4,			t/Abser	B			
			ompliance	Sampler:	Zach Coming		TMB	/ DR	Pesticides/8082				NO ₂ ,		~	resen	Softs			
□ NEL	(Type)	U Otner		On Ice: # of Coolers	X Yes	□ No	E/	GRC	des/	d 50	0 0	as	03,		100	7) (F	3			
	(1) 00					6-0.2=2.4	MTBE	5D(stici	etho	83.	Met	Z	(AC	-imi	lifori	3			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 7109000	BTEX /	TPH:8015D(GRO	8081 Pe	EDB (Method	PAHs by 8310 or	RCRA 8 Metals	CI, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chow			
cB3ou	0800	S	TP7.5	Jan		00 (X	×									X			
	980		TP7-2			002														
	0825		TP8-S			003														
	0835		TP8-2			2004														
	0840		TP9-S			005														
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Date:	BIR OBO Euclemino /2/1			Received by: Via: Pate Time				Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell												
Date: 831 U	Time:	Car	omitted to Hall Environmental may be sub		cowies	Date Time cally 99114 0730 as This serves as notice of the	nis nossi				Dire	ect B	list ill to	ed a	bove G Ch	e. nase	Settle	9		

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324 W.	Main St	t. Suite 10	98, Artesia NM 88210	Project #:	DICE AU	1 #1	-								uquerque, NM 87109 Fax 505-345-4107					
Phone		(505)37		11.	230052		1		el. 50	05-34	45-3		_	-	-	-345- uest				
email o	r Fax#:	Becky.H	laskell@ghd.com	Project Man			6	<u> </u>			-4			616	Ned			-		-
QA/QC	Package ndard		☐ Level 4 (Full Validation)	Becky Hask	ell		TMB's (8024)	7/WRC	PCB's		SIMIS		PO ₄ , SO ₄			'Absent	300			
Accred	itation: .AC	☐ Az Co	ompliance	Sampler:	Sampler: Zach Comino On Ice: X Yes □ No)/DRC	Pesticides/8082 F	14.1)	r 8270SIMS		NO ₂ ,		3	resent	(Hac)			
	(Type)			# of Coolers	# of Coolers: (Cooler Temp(including CF): Z. 6 - 0.2 - 2.4			GRC	des/	d 50	10 or	tals			VOA	m (P	2			
				Cooler Temp	O(including CF): 2.6	-0.2=2.4	M	15D(stici	etho	/ 83	Mei	r,	OA)	emi-	lifor	3			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE	TPH:8015D(GRO/DRO/MRO)	8081 Pe	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	Cl, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Llowid			
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83121 Date:	<u>0800</u> Time:	Relinquishe	Carrino talel.	Received by:	Via:	Sate Time	-		Tom	v.Lar	son@ ughli	@gh in@g	d.co ghd. liste	m; Z com ed al	ach. : Alo oove	Coming w	eogres ino@gl ith Bec	nd.com	n	



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

January 05, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX:

RE: Rodke AOY 1 OrderNo.: 2112D34

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/23/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-5'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 7:30:00 AM

 Lab ID:
 2112D34-001
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	4200	150		mg/Kg	50	1/3/2022 6:16:20 PM	64801
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	SB
Diesel Range Organics (DRO)	1600	94		mg/Kg	10	12/28/2021 1:31:55 PM	64734
Motor Oil Range Organics (MRO)	550	470		mg/Kg	10	12/28/2021 1:31:55 PM	64734
Surr: DNOP	0	70-130	S	%Rec	10	12/28/2021 1:31:55 PM	64734
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	mb
Gasoline Range Organics (GRO)	3100	97		mg/Kg	20	12/28/2021 3:51:00 AM	64722
Surr: BFB	567	70-130	S	%Rec	20	12/28/2021 3:51:00 AM	64722
EPA METHOD 8021B: VOLATILES						Analyst:	mb
Benzene	50	0.49		mg/Kg	20	12/28/2021 3:51:00 AM	64722
Toluene	190	4.9		mg/Kg	100	12/28/2021 8:55:00 AM	64722
Ethylbenzene	110	4.9		mg/Kg	100	12/28/2021 8:55:00 AM	64722
Xylenes, Total	110	1.9		mg/Kg	20	12/28/2021 3:51:00 AM	64722
Surr: 4-Bromofluorobenzene	209	70-130	S	%Rec	20	12/28/2021 3:51:00 AM	64722

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

Qualifiers:

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

Page 1 of 15

Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-10'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 7:35:00 AM

 Lab ID:
 2112D34-002
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	4900	300		mg/Kg	100	1/3/2022 6:28:44 PM	64801
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	SB
Diesel Range Organics (DRO)	3600	91		mg/Kg	10	12/28/2021 1:42:39 PM	64734
Motor Oil Range Organics (MRO)	1200	460		mg/Kg	10	12/28/2021 1:42:39 PM	64734
Surr: DNOP	0	70-130	S	%Rec	10	12/28/2021 1:42:39 PM	64734
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	mb
Gasoline Range Organics (GRO)	1400	94		mg/Kg	20	12/28/2021 4:10:00 AM	64722
Surr: BFB	416	70-130	S	%Rec	20	12/28/2021 4:10:00 AM	64722
EPA METHOD 8021B: VOLATILES						Analyst:	mb
Benzene	6.0	0.47		mg/Kg	20	12/28/2021 4:10:00 AM	64722
Toluene	59	0.94		mg/Kg	20	12/28/2021 9:34:00 AM	64722
Ethylbenzene	51	0.94		mg/Kg	20	12/28/2021 9:34:00 AM	64722
Xylenes, Total	60	1.9		mg/Kg	20	12/28/2021 4:10:00 AM	64722
Surr: 4-Bromofluorobenzene	166	70-130	S	%Rec	20	12/28/2021 4:10:00 AM	64722

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
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-15'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 7:40:00 AM

 Lab ID:
 2112D34-003
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	2900	150		mg/Kg	50	1/3/2022 6:41:08 PM	64801
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	SB
Diesel Range Organics (DRO)	4200	88		mg/Kg	10	12/28/2021 1:53:34 PM	64734
Motor Oil Range Organics (MRO)	1700	440		mg/Kg	10	12/28/2021 1:53:34 PM	64734
Surr: DNOP	0	70-130	S	%Rec	10	12/28/2021 1:53:34 PM	64734
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	mb
Gasoline Range Organics (GRO)	480	97		mg/Kg	20	12/28/2021 4:30:00 AM	64722
Surr: BFB	245	70-130	S	%Rec	20	12/28/2021 4:30:00 AM	64722
EPA METHOD 8021B: VOLATILES						Analyst:	mb
Benzene	ND	0.48		mg/Kg	20	12/28/2021 4:30:00 AM	64722
Toluene	10	0.97		mg/Kg	20	12/28/2021 4:30:00 AM	64722
Ethylbenzene	17	0.97		mg/Kg	20	12/28/2021 4:30:00 AM	64722
Xylenes, Total	19	1.9		mg/Kg	20	12/28/2021 4:30:00 AM	64722
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	20	12/28/2021 4:30:00 AM	64722

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
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-20'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 8:00:00 AM

 Lab ID:
 2112D34-004
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	2300	150		mg/Kg	50	1/3/2022 6:53:32 PM	64801
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	SB
Diesel Range Organics (DRO)	7000	180		mg/Kg	20	12/28/2021 2:04:27 PM	64734
Motor Oil Range Organics (MRO)	2800	910		mg/Kg	20	12/28/2021 2:04:27 PM	64734
Surr: DNOP	0	70-130	S	%Rec	20	12/28/2021 2:04:27 PM	64734
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	mb
Gasoline Range Organics (GRO)	790	95		mg/Kg	20	12/28/2021 5:48:00 AM	64722
Surr: BFB	358	70-130	S	%Rec	20	12/28/2021 5:48:00 AM	64722
EPA METHOD 8021B: VOLATILES						Analyst:	mb
Benzene	1.6	0.48		mg/Kg	20	12/28/2021 5:48:00 AM	64722
Toluene	22	0.95		mg/Kg	20	12/28/2021 5:48:00 AM	64722
Ethylbenzene	33	0.95		mg/Kg	20	12/28/2021 5:48:00 AM	64722
Xylenes, Total	40	1.9		mg/Kg	20	12/28/2021 5:48:00 AM	64722
Surr: 4-Bromofluorobenzene	153	70-130	S	%Rec	20	12/28/2021 5:48:00 AM	64722

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
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-25'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 8:10:00 AM

 Lab ID:
 2112D34-005
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	71	59		mg/Kg	20	12/30/2021 5:19:48 PM	64801
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	SB
Diesel Range Organics (DRO)	130	9.1		mg/Kg	1	12/29/2021 8:45:23 PM	64734
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/29/2021 8:45:23 PM	64734
Surr: DNOP	83.3	70-130		%Rec	1	12/29/2021 8:45:23 PM	64734
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	mb
Gasoline Range Organics (GRO)	34	4.7		mg/Kg	1	12/28/2021 9:54:00 AM	64722
Surr: BFB	272	70-130	S	%Rec	1	12/28/2021 9:54:00 AM	64722
EPA METHOD 8021B: VOLATILES						Analyst:	mb
Benzene	0.046	0.023		mg/Kg	1	12/28/2021 9:54:00 AM	64722
Toluene	0.21	0.047		mg/Kg	1	12/28/2021 9:54:00 AM	64722
Ethylbenzene	0.54	0.047		mg/Kg	1	12/28/2021 9:54:00 AM	64722
Xylenes, Total	0.64	0.094		mg/Kg	1	12/28/2021 9:54:00 AM	64722
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	12/28/2021 9:54:00 AM	64722

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

Qualifiers:

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

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Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-30'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 8:15:00 AM

 Lab ID:
 2112D34-006
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	120	60		mg/Kg	20	12/30/2021 5:32:09 PM	64801
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	SB
Diesel Range Organics (DRO)	950	43		mg/Kg	5	1/3/2022 11:56:56 AM	64734
Motor Oil Range Organics (MRO)	350	210		mg/Kg	5	1/3/2022 11:56:56 AM	64734
Surr: DNOP	116	70-130		%Rec	5	1/3/2022 11:56:56 AM	64734
EPA METHOD 8015D: GASOLINE RANGE						Analyst	mb
Gasoline Range Organics (GRO)	40	4.8		mg/Kg	1	12/28/2021 10:33:00 AM	Л 64722
Surr: BFB	298	70-130	S	%Rec	1	12/28/2021 10:33:00 AM	Л 64722
EPA METHOD 8021B: VOLATILES						Analyst	mb
Benzene	ND	0.024		mg/Kg	1	12/28/2021 10:33:00 AM	Л 64722
Toluene	0.15	0.048		mg/Kg	1	12/28/2021 10:33:00 AM	√ 64722
Ethylbenzene	0.95	0.048		mg/Kg	1	12/28/2021 10:33:00 AM	√ 64722
Xylenes, Total	1.5	0.096		mg/Kg	1	12/28/2021 10:33:00 AM	√ 64722
Surr: 4-Bromofluorobenzene	167	70-130	S	%Rec	1	12/28/2021 10:33:00 AM	M 64722

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

Qualifiers:

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

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Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-35'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 8:20:00 AM

 Lab ID:
 2112D34-007
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	260	60		mg/Kg	20	12/30/2021 5:44:29 PM	64801
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst	SB
Diesel Range Organics (DRO)	920	49		mg/Kg	5	12/30/2021 8:47:18 PM	64735
Motor Oil Range Organics (MRO)	350	240		mg/Kg	5	12/30/2021 8:47:18 PM	64735
Surr: DNOP	77.8	70-130		%Rec	5	12/30/2021 8:47:18 PM	64735
EPA METHOD 8015D: GASOLINE RANGE						Analyst	mb
Gasoline Range Organics (GRO)	96	24		mg/Kg	5	12/30/2021 4:00:00 AM	64725
Surr: BFB	216	70-130	S	%Rec	5	12/30/2021 4:00:00 AM	64725
EPA METHOD 8021B: VOLATILES						Analyst	mb
Benzene	0.16	0.12		mg/Kg	5	12/30/2021 4:00:00 AM	64725
Toluene	2.2	0.24		mg/Kg	5	12/30/2021 4:00:00 AM	64725
Ethylbenzene	3.7	0.24		mg/Kg	5	12/30/2021 4:00:00 AM	64725
Xylenes, Total	4.1	0.47		mg/Kg	5	12/30/2021 4:00:00 AM	64725
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	5	12/30/2021 4:00:00 AM	64725

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

Qualifiers:

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

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Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-40'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 8:40:00 AM

 Lab ID:
 2112D34-008
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	290	60		mg/Kg	20	12/30/2021 5:56:50 PM 64801
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: SB
Diesel Range Organics (DRO)	380	9.5		mg/Kg	1	12/29/2021 11:55:36 PM 64735
Motor Oil Range Organics (MRO)	140	48		mg/Kg	1	12/29/2021 11:55:36 PM 64735
Surr: DNOP	92.7	70-130		%Rec	1	12/29/2021 11:55:36 PM 64735
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	610	50		mg/Kg	10	12/28/2021 12:11:00 PM 64725
Surr: BFB	353	70-130	S	%Rec	10	12/28/2021 12:11:00 PM 64725
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	3.8	0.25		mg/Kg	10	12/28/2021 12:11:00 PM 64725
Toluene	21	0.50		mg/Kg	10	12/28/2021 12:11:00 PM 64725
Ethylbenzene	21	0.50		mg/Kg	10	12/28/2021 12:11:00 PM 64725
Xylenes, Total	21	0.99		mg/Kg	10	12/28/2021 12:11:00 PM 64725
Surr: 4-Bromofluorobenzene	150	70-130	S	%Rec	10	12/28/2021 12:11:00 PM 64725

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

Qualifiers:

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

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Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-45'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 8:50:00 AM

 Lab ID:
 2112D34-009
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	89	60		mg/Kg	20	12/30/2021 6:09:11 PM	64801
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	SB
Diesel Range Organics (DRO)	10000	200		mg/Kg	20	12/28/2021 3:31:08 PM	64735
Motor Oil Range Organics (MRO)	3500	980		mg/Kg	20	12/28/2021 3:31:08 PM	64735
Surr: DNOP	0	70-130	S	%Rec	20	12/28/2021 3:31:08 PM	64735
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	mb
Gasoline Range Organics (GRO)	4400	500		mg/Kg	100	12/29/2021 8:40:00 AM	64725
Surr: BFB	259	70-130	S	%Rec	100	12/29/2021 8:40:00 AM	64725
EPA METHOD 8021B: VOLATILES						Analyst:	mb
Benzene	53	2.5		mg/Kg	100	12/29/2021 8:40:00 AM	64725
Toluene	260	5.0		mg/Kg	100	12/29/2021 8:40:00 AM	64725
Ethylbenzene	170	5.0		mg/Kg	100	12/29/2021 8:40:00 AM	64725
Xylenes, Total	170	10		mg/Kg	100	12/29/2021 8:40:00 AM	64725
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	100	12/29/2021 8:40:00 AM	64725

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

Qualifiers:

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

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Date Reported: 1/5/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SB-1-50'

 Project:
 Rodke AOY 1
 Collection Date: 12/21/2021 9:05:00 AM

 Lab ID:
 2112D34-010
 Matrix: SOIL
 Received Date: 12/23/2021 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	12/30/2021 6:46:12 PM	64803
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/28/2021 3:41:55 PM	64735
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/28/2021 3:41:55 PM	64735
Surr: DNOP	99.5	70-130	%Rec	1	12/28/2021 3:41:55 PM	64735
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/28/2021 12:51:00 PM	M 64725
Surr: BFB	118	70-130	%Rec	1	12/28/2021 12:51:00 PM	M 64725
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	0.074	0.025	mg/Kg	1	12/29/2021 9:19:00 AM	64725
Toluene	ND	0.050	mg/Kg	1	12/28/2021 12:51:00 PM	M 64725
Ethylbenzene	ND	0.050	mg/Kg	1	12/28/2021 12:51:00 PM	M 64725
Xylenes, Total	ND	0.099	mg/Kg	1	12/28/2021 12:51:00 PM	M 64725
Surr: 4-Bromofluorobenzene	82.9	70-130	%Rec	1	12/28/2021 12:51:00 PM	M 64725

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2112D34 05-Jan-22

Client: GHD Midland **Project:** Rodke AOY 1

PBS

Client ID:

Sample ID: MB-64801 SampType: mblk

TestCode: EPA Method 300.0: Anions

Batch ID: 64801 RunNo: 84894

Prep Date: 12/30/2021 Analysis Date: 12/30/2021 SeqNo: 2986385 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-64801 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64801 RunNo: 84894 Prep Date: 12/30/2021 Analysis Date: 12/30/2021 SeqNo: 2986386 Units: mg/Kg

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

HighLimit Chloride 14 1.5 15.00 92.7 110

Sample ID: MB-64803 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 64803 RunNo: 84894 Prep Date: 12/30/2021 Analysis Date: 12/30/2021 SeqNo: 2986415 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 1.5

Sample ID: LCS-64803 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64803 RunNo: 84894

Prep Date: 12/30/2021 Analysis Date: 12/30/2021 SeqNo: 2986416 Units: mg/Kg

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

14 15.00 Chloride 1.5 n 94.2 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D34 05-Jan-22**

Client: GHD Midland Project: Rodke AOY 1

Troject. Rodke 7:	1011										
Sample ID: LCS-64734	SampType: L0	cs	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics			
Client ID: LCSS	Batch ID: 64	734	F	RunNo: 84	4808						
Prep Date: 12/27/2021	Analysis Date: 1	2/28/2021	9	SeqNo: 29	983230	Units: mg/k	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	43 10	50.00	0	86.4	68.9	135					
Surr: DNOP	4.3	5.000		85.9	70	130					
Sample ID: MB-64734	SampType: M	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics			
Client ID: PBS	Batch ID: 64	734	F	RunNo: 84	4808						
Prep Date: 12/27/2021	Analysis Date: 1	2/28/2021	S	SeqNo: 29	983231	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	7.8	10.00		77.6	70	130					
Sample ID: LCS-64735	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID: LCSS	Batch ID: 64	735	F	RunNo: 84	4808						
Prep Date: 12/27/2021	Analysis Date: 1	2/28/2021	9	SeqNo: 29	983329	Units: mg/k	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	52 10	50.00	0	103	68.9	135					
Surr: DNOP	5.8	5.000		117	70	130					
Sample ID: MB-64735	SampType: M	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics			
Client ID: PBS	Batch ID: 64	735	F	RunNo: 84	4859						
Prep Date: 12/27/2021	Analysis Date: 1	2/29/2021	5	SeqNo: 29	985227	Units: mg/k	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND 10										
Motor Oil Range Organics (MRO)	ND 50										
Surr: DNOP	9.2	10.00		91.6	70	130					
Sample ID: 2112D34-007AMS	SampType: M	s	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics			
Client ID: SB-1-35'	Batch ID: 64	735	F	RunNo: 84	4875						
Prep Date: 12/27/2021	Analysis Date: 1	2/30/2021	5	SeqNo: 29	985939	Units: mg/k	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	570 49	49.16	920.4	-715	39.3	155			S		
C DNOD	2.0	1 0 1 0		00.0	70	400			_		

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

3.0

B Analyte detected in the associated Method Blank

60.6

70

130

E Estimated value

4.916

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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S

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D34**

05-Jan-22

Client: GHD Midland Project: Rodke AOY 1

Sample ID: 2112D34-007AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **SB-1-35'** Batch ID: **64735** RunNo: **84875**

Prep Date: 12/27/2021 Analysis Date: 12/30/2021 SeqNo: 2985940 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	410	46	46.21	920.4	-1100	39.3	155	31.6	23.4	RS
Surr: DNOP	2.5		4.621		53.8	70	130	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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

980

WO#: **2112D34 05-Jan-22**

Client: GHD Midland
Project: Rodke AOY 1

Sample ID: mb-64722 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 64722 RunNo: 84781 Prep Date: 12/23/2021 Analysis Date: 12/27/2021 SeqNo: 2982231 Units: mq/Kq PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 830 1000 82.7 70 130

1000

Sample ID: Ics-64722 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 64722 RunNo: 84781 Prep Date: 12/23/2021 Analysis Date: 12/27/2021 SeqNo: 2982232 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 O 101 78.6 131

97.8

70

130

Sample ID: mb-64725 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 64725 RunNo: 84821 Prep Date: 12/23/2021 Analysis Date: 12/28/2021 SeqNo: 2983480 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 880 1000 88.0 70 130

Sample ID: Ics-64725 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 64725 RunNo: 84821 Prep Date: 12/23/2021 Analysis Date: 12/28/2021 SeqNo: 2983482 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 102
 78.6
 131

 Surr: BFB
 1100
 1000
 108
 70
 130

Qualifiers:

Surr: BFB

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D34**

05-Jan-22

Client: GHD Midland Project: Rodke AOY 1

Sample ID: mb-64722	Samp	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batc	h ID: 64	722	F	4781					
Prep Date: 12/23/2021	Analysis [Date: 12	2/27/2021	SeqNo: 2982272 U			Units: mg/K			
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	0.77		1.000		76.7	70	130			
Sample ID: Ics-64722	Samn	Type: LC	:s	Tes	tCode: FI	PA Method	8021B: Volat	iles		•

Sample ID: Ics-64722	Samp1	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: LCSS	Batc	h ID: 64 7	722	F	RunNo: 8	4781						
Prep Date: 12/23/2021	Analysis D	Date: 12	2/27/2021	5	SeqNo: 2	982273	3 Units: mg/Kg					
Analyte	llyte Result PQL SPK value				%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.90	0.025	1.000	0	89.8	80	120					
Toluene	0.88	0.050	1.000	0	87.8	80	120					
Ethylbenzene	0.88	0.050	1.000	0	87.7	80	120					
Xylenes, Total	2.6	0.10	3.000	0 85.7 80			120					
Surr: 4-Bromofluorobenzene	0.75		1.000		75.3	70	130					

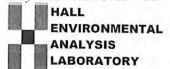
Sample ID: mb-64725	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: PBS	Batch	n ID: 64	725 RunNo: 84821									
Prep Date: 12/23/2021	Analysis D	oate: 12	2/28/2021	S	983529	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.78		1.000		78.2	70	130					

Sample ID: Ics-64725	s	TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batch	n ID: 64 7	725	F	RunNo: 8	4821							
Prep Date: 12/23/2021	Analysis D	oate: 12	/28/2021	S	SeqNo: 2	983531	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.91	0.025	1.000	0	90.6	80	120						
Toluene	0.89	0.050	1.000	0	89.0	80	120						
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120						
Xylenes, Total	2.6	0.10	3.000	0 86.0 80			120						
Surr: 4-Bromofluorobenzene	0.77		1.000		77.4	70	130						

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GHD Midland	Work Order Num	nber: 2112D34		RcptNo: 1
Received By: Isaiah Ortiz	12/23/2021 7:40:0	0 AM	I_0	*
Completed By: Isaiah Ortiz	12/23/2021 8:47:2	5 AM	I_0	L
Reviewed By: 3/2/23/21			2	12
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		Courier		
Log In				
Was an attempt made to cool the sample.	oles?	Yes 🗸	No 🗆	NA 🗆
Were all samples received at a tempera	ature of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗆	
Sufficient sample volume for indicated t	est(s)?	Yes 🗸	No 🗆	
7. Are samples (except VOA and ONG) pr		Yes 🗸	No 🗌	
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗆
9. Received at least 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗆	NA 🗹
10. Were any sample containers received t	oroken?	Yes	No 🗸	The second second
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody	()	Yes 🗸	No 🗆	# of preserved bottles checked for pH: (<2 or >12 unless noted)
2. Are matrices correctly identified on Cha		Yes 🗹	No 🗆	Adjusted?
3. Is it clear what analyses were requested	1?	Yes 🗸	No 🗆	101. 1-1
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by: KPU 17/2
Special Handling (if applicable)				
15. Was client notified of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🗸
Person Notified:	Date			
By Whom:	Via:	eMail	Phone Fax	☐ In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. Cooler Information	Factories and the co	ankaya .		
Cooler No Temp °C Condition 1 0.9 Good	Seal Intact Seal No Not Present	Seal Date	Signed By	
2 4.7 Good	Not Present			

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	Chair	1-of-C	ustody Record	Turn-Around	d Time:		٦,	01													ceiv
Client:		94		☐ Standard	d N Rusi	150WY] [E										NT		
Mailing	Addres	S: 224				V4 (١.	-			ww	v.ha	llenv	iron	men	tal.c	om				CD: .
			w. Main St Suite 108	Project #:	ke Aoy	4:1	4901 Hawkins NE - Albuquerque, NM 87109								3/15/						
Phone		Tia 1			230052			Т	el. 50	05-3	45-3	-			_		-410	7			202
	or Fax#:	005-0	77 - 4218	Project Mana					-	_		A		/sis	Rec	ues	t				7:2
	Package	t)	☐ Level 4 (Full Validation)		ky Has	leel l	TMB's (8021)	/ DRO / MRO)	PCB's		8270SIMS		PO ₄ , SO ₄			/Absent)				h	1:56 AM
Accred	litation:	□ Az C	ompliance	Sampler:	Lu M		MB	DR(182	1	3270		NO ₂ , F			sent	300				П
□ NEI		□ Othe	er	On Ice:	□ Yes	□ No	-			504.1)	ō	S			(AC	(Pre	E3				Ш
	O (Type)			# of Coolers:	7 1.0 -	0.1° KE 0.9° C	MTBE	D(G	icide	pou	3310	letal	NO	4)	Ji-VC	orm					Н
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type		BTEX / M	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride				
12/21/21	0730	5	SB-1-5'	1		001	X	V	7 4					-		Ħ	X				
1	0735		SB-1-10'	1		007	4	1									11			+	Н
	0740		SB-1-15'			063											1				
1 1 1	0800		513-1-20'			004												-	+	+	Н
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	0815		SB-1-30'			006														+	Н
	0820		SB-1-35'			007											1				
	0840		SB-1-40'			00 8									-	3				1	
	0850	11/14	SB-1-45'			009								T			1				Н
¥	0905	V	58-1-50'	1			1	V									A				
Date:	Time:	Relinquish	ned by:	Received by:	Via:	Date Time	Ren	narks	s:												
Date:	1200 Time:	Relinquish		Received by:	via.	12/22/21 1200 Date Time 12/23/21 0740															Page 100 of 1

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 90254

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	90254
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Remediation Plan Approved with Conditions. Please track and report volumes of microbial strain injected into the subsurface. OCD recommends confirmation sampling occur 60 days after last injection event. Please advance confirmation soil borings adequately between injection points.	3/18/2022