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

Our ref: 11220756

May 06, 2021

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

Re: Site Characterization and Closure Report Unocal AHU Federal #1 Release Site EOG Resources Inc. 2RP-21
B-01-22S-31E, Eddy County, New Mexico

To Whom It May Concern:

1. Introduction

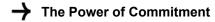
GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, analyses, and remedial activities in the affected areas at the EOG Unocal AHU Federal #1 Release Site (Site). The Site is located in Unit Letter B Section 1 of Township 22 South and Range 31 East in Eddy County, New Mexico. The GPS coordinates for the releases site are 32.42585 N latitude and 103.72889 W longitude. The release occurred on land managed by the Bureau Of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figures 2 and 3, respectively.

2. **Background Information**

2RP-21 occurred on April 5, 2007, and a C-141 initial report was submitted and approved by the NMOCD. The C-141 stated the release was caused when a "bleeder valve on a circulation pump was left open". Approximately 10 barrels (bbl.) of crude oil were released and approximately 9 bbl. were recovered. Released fluids were all contained inside the berm and a vacuum truck sucked up all the free fluids.

Yates Petroleum Corporation (Yates) originally sampled the Site on November 13, 2007 using a hand auger. Samples were taken at 1, 2, and 3 feet below ground surface (ft. bgs.) and analyzed for benzene, toluene, ethylbenzene, xylene (BTEX), total petroleum hydrocarbons (TPH), and chlorides. During this 2007 sampling event only Chlorides exceeded the NMAC limit.

In 2016 Yates was acquired by EOG Resources Inc. (EOG) along with the responsibility for cleaning the Site.



The Initial Form C-141 for the Remediation Permit is attached in Appendix A. The Final C-141 is 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 (19.15.29.12). The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico.

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is within 300 feet of a continuously flowing water course and so the release must be treated as if it occurred less than 50 ft. from groundwater. No other receptors (water wells, playas, wetlands, karsts, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. No groundwater data could be located within one-half mile of the Site, but the original C-141 states groundwater is greater than 100 ft. from the surface. The Site characterization documentation (Karst Potential, FEMA and Wetlands maps) are provided in Appendix B. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
Within 300 ft. of a Significant watercourse	Unknown, Treated as <50 ft.

Table 3.3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Constituent	Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	N/A
Benzene	10mg/kg
BTEX	50 mg/kg

4. Initial Soil Delineation Assessment Summary and Findings

On March 2, 2021 GHD Services Inc. (GHD) and EOG's contractor SDR Enterprises, LLC (SDR), on behalf of EOG, conducted a soil sampling event at the Site. Sampling locations were placed inside the containment berm and based on the 35'x15' approximate spill area indicated in the original C-141. Sampling started around the circulating pump (source) at the surface and at 2 ft. bgs. Samples were screened using a photoionization detector (PID) and chloride test strips. If the screening data from Volatile Organic Compounds (VOCs) and chloride strips detected analytes, an additional sample was taken 2 ft. further down and the screening process was repeated pending a non-detect screening level.

A total of at eighteen (18) samples were taken from (8) locations including both surface and 2 ft. bgs. samplings at all locations. Additionally, two (2) four (4) ft. bgs. samples were taken at sample locations TP-2 and TP-3.

All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B NM, and chlorides by EPA Method 300 by Eurofins Xenco Laboratory in Carlsbad, New Mexico. Analytical exceedances occurred at TP-1 and TP-2 for both TPH and Chloride at the surface level only. TP-3 exhibited a single exceedance for

→ The Power of Commitment

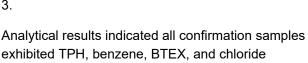
TPH at 2 ft. bgs. Figure 2 depicts the locations of the initial delineation samples and analyte concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Appendix C.

5. Excavation, Waste Management and Confirmation Sampling

Due to the preliminary soil sampling activities exhibiting TPH and Chloride exceedances above the closure criteria in the above table 3.1, GHD and SDR returned to the site on March 29, 2021, to excavate the affected soils (see Figure 3). Surface dimensions of the excavation were approximately 20'x 28'. Excavation depths ranged from three (3) feet deep on the west side (BH-3 area) to two (2) feet deep in the middle and east side (BH-1 and BH-2 areas). An approximate total of 55 cubic yards of soil were removed and placed on a plastic liner on the north side of the berm.

The image to the right depicts the complete excavated area facing West.

Five (5) confirmation samples were taken to Eurofins Environmental Texting Xenco (Eurofins) in Carlsbad, New Mexico. All samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B NM, and chlorides by EPA Method 300. All confirmation samples collected represented areas no greater than 200 square feet. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Appendix C. Analytical results are summarized in attached Table 1 and confirmation sample locations are shown in Figure 3.





concentrations below Table 1 Closure Criteria for depth to groundwater less than or equal to fifty (50) feet.

Waste management activities were performed in coordination with EOG directives. GHD obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. The approved C-138 and manifests are provided in Appendix D.

The excavation was later backfilled with non-impacted material on April 13, 2021.

6. **2RP-21 Closure Requests**

Site characterization, soil delineation, and remediation activities for this remediation permit have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for 2RP-21.

→ The Power of Commitment

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

Sincerely,

GHD

Rebecca Haskell
Becky Haskell

Senior Project Manager

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

Thomas Clayon

BH/mss/1

Encl. Figure 1 – Site Location Map

Figure 2 – Initial Assessment Soil Concentration Map

Figure 3 – Confirmation Sampling Soil Analytical Results Map

Table 1 – Summary of Soil Analytical Data

Attachment A - Initial Form C-141 for 2RP-21

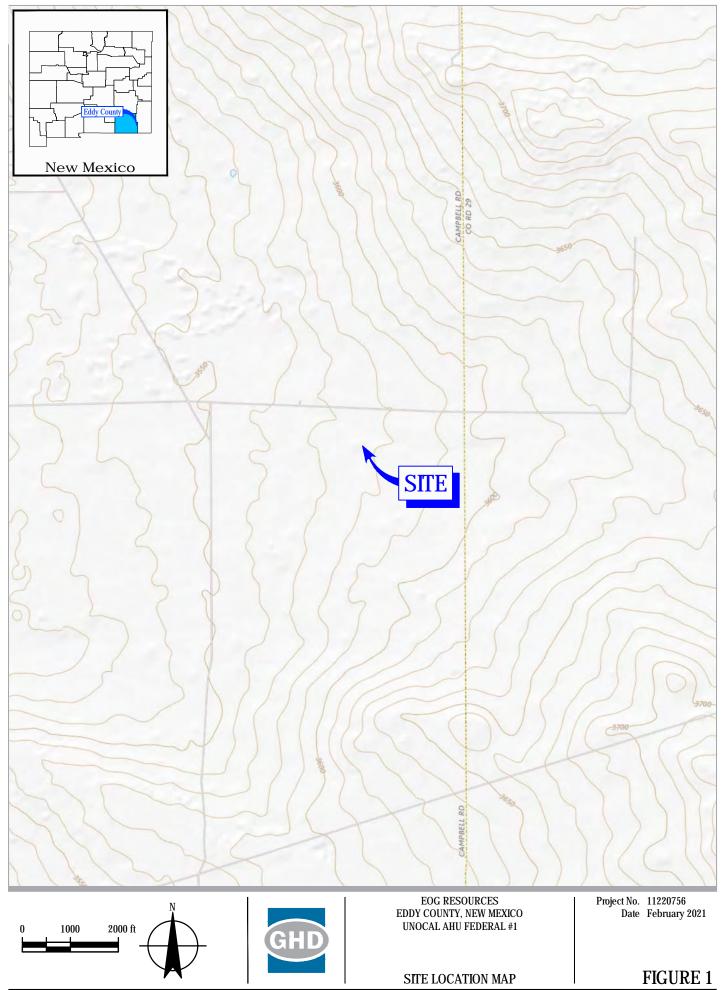
Attachment B – Site Characterization Documentation

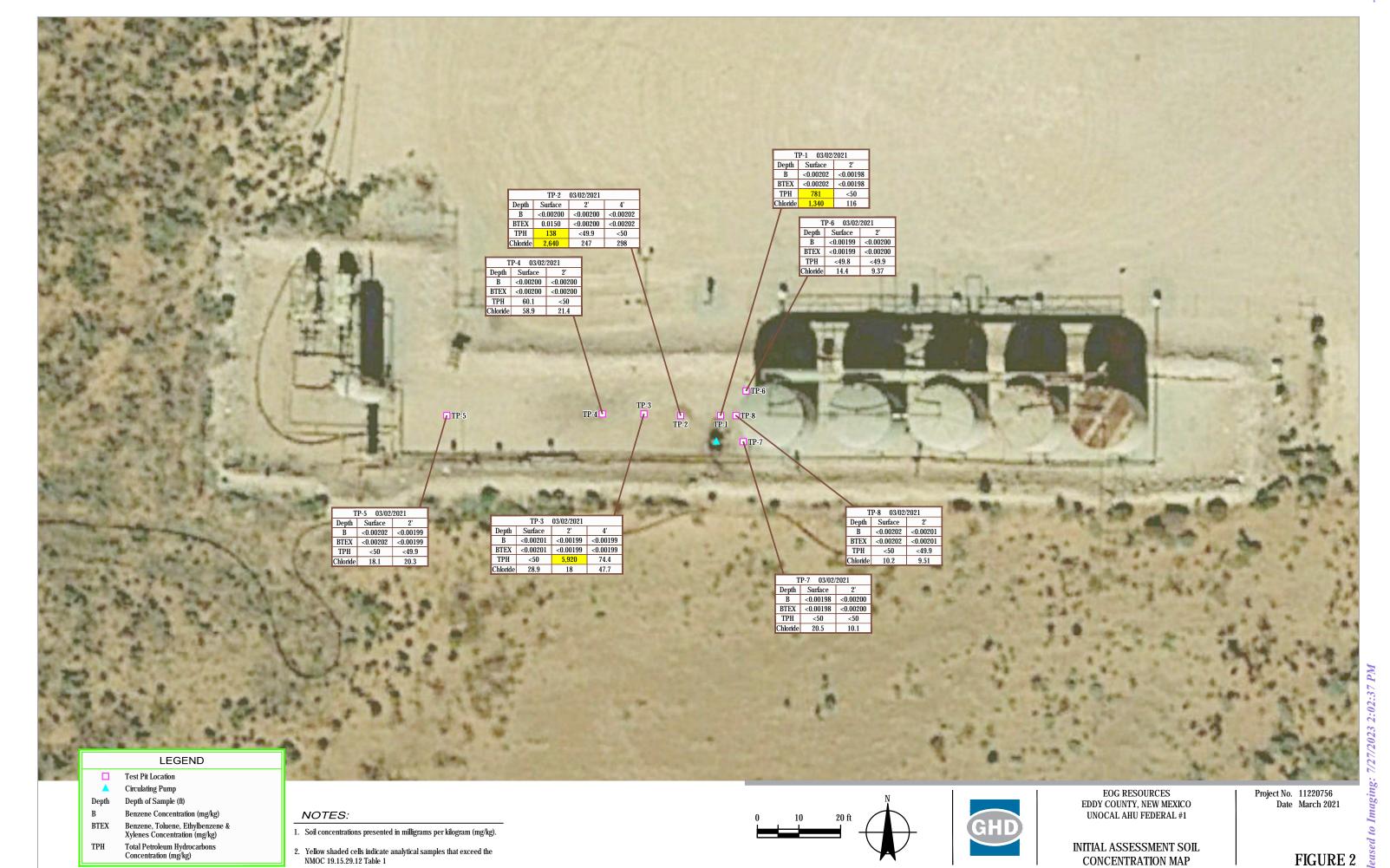
Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation

Attachment D - Approved Form C-138 and Manifests

cc: James Kennedy

Figures





Filename: \\ghdneftghd\USMidland\Projects\562\11220756\Digital_Design\ACAD 2018\Figures\RPT001\11220756\GHD-0000\-RPT-EN-0101_DL-001.dwg
Plot Date: 25 March 2021 5:14 PM

Data Source: Image © 2021 Google - Imagery Date: November 2, 2017 Lat/Long, 32, 425613° North, 103, 729663° West



Filename: \\ghdnetghduSMidland\Projects\562\11220756\Digital_Design\ACAD 2018\Figures\RPT001\11220756\GHD-0000\,RPT-EN-0101_DL-001.dwg
Plot Date: 23 April 2021 2:32 PM

Data Source: Image © 2021 Google - Imagery Date: November 2, 2017 Lat/Long, 32, 425613° North, 103, 729663° West

Tables

Page 1 of 1

Table 1 **Summary of Soil Analytical Data** Unocal AHU Federal #1 **EOG Resources Eddy County, New Mexico**

Rologsod to Imaging:					Unoca E(Table 1 of Soil Analytical al AHU Federal #1 OG Resources ounty, New Mexic						Page 1	of 1
											ТРН		
		Sample	Depth (feet	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride
	Sample ID	Date	bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
						Table I C	losure Criteria	for Soils <50 for	eet Depth to Gro	undwater 19.15	5.29 NMAC		
3				10 mg/Kg				50 mg/Kg				100 mg/Kg	600 mg/Kg
					ı	nitial Assessmen	t Samples						
	TP-1-S	3/2/21	S	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	628	153	781	1,340
	TP-1-2	3/2/21	2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50	<50	<50	116
3	TP-2-S	3/2/21	S	<0.00200	<0.00200	0.00282	0.0122	0.0150	<50.0	138	<50.0	138	2,640
	TP-2-2	3/2/21	2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	247
	TP-2-4	3/2/21	4	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50	<50	<50	<50	298
	TP-3-S	3/2/21	S	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50	<50	<50	<50	28.9
	TP-3-2	3/2/21	2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	5,170	749	5,920	18
	TP-3-4	3/2/21	4	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	74.4	<49.9	74.4	47.7
	TP-4-S	3/2/21	S	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	60.1	<49.8	60.1	58.9
	TP-4-2	3/2/21	2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50	<50	<50	<50	21.4
	TP-5-S	3/2/21	S	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50	<50	<50	<50	18.1
	TP-5-2	3/2/21	2	<0.00202	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	20.3
	TP-6-S	3/2/21	S	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	14.4
	TP-6-2	3/2/21	2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	9.37
	TP-7-S	3/2/21	S	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50	<50	<50	<50	20.5
	TP-7-3	3/2/21	2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50 <50	<50 <50	<50 <50	<50 <50	10.1
	TP-8-S TP-S-2	3/2/21 3/2/21	S 2	<0.00202 <0.00201	<0.00202 <0.00201	<0.00202 <0.00201	<0.00202 <0.00201	<0.00202 <0.00201	<50 <49.9	<50 <49.9	<50 <49.9	<50 <49.9	10.2 9.51
	11-0-2	3/2/21		<u> </u>	<u> </u>	Confirmation S		<u> </u>	\48.8	\49.9		\49.9	9.51
	BH-1	3/29/21	2	<0.000383	<0.000454	<0.000563	<0.000996	<0.000996	<15.0	<15.0	<15.0	<15.0	94.3
	SW-1	3/29/21	N/A	<0.000384	<0.000455	<0.000564	<0.000998	<0.000998	23.5	<15.0	<15.0	23.5	18.0
	BH-2	3/29/21	2	<0.000384	<0.000455	<0.000564	<0.000998	<0.000998	22.0	<15.0	<15.0	22.0	95.6
	SW-2	3/29/21	N/A	<0.000385	<0.000456	<0.000565	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	132
	BH-3	3/29/21	3	<0.000382	<0.000452	<0.000561	<0.000992	<0.000992	<15.0	<15.0	<15.0	<15.0	240

Notes:

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

B-BH-2 Sample Point Excavated

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

Attachment A Initial Form C-141 for 2RP-21

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenuc, Artesia, NM 88210
District III
1000 Rto Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

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

			Rele	ease Notifi	catio	n and Co	orrective A	ction				
				0	PERA	TOR		[Initia	l Report	\boxtimes	Final Report
Name of Co	трапу			OGRID Nui	mber	l e e e e e e e e e e e e e e e e e e e					,	
Yates Petro	leum Corp	oration		25575		Robert Asher						
Address						Telephone No.						
		Artesia, NN	<u>f</u> 88210			505-748-1471						
Facility Na				API Number		Facility Typ	oe .					
Unocal AH U Federal #1 30-015-26698						Battery						
Surface Ow	ner			Mineral	Owner				Lease N	√0 .		
Federal				Federal				1	NM-43	556		
				LOC	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W	est Line	County		
В	1	225	31Ē	660		North	1980	E	last	Eddy		
							\	<u> </u>				
				Latitude_32.	<u>.42585_</u>	Longitude	<u>`103.72889</u>					
				NA7	TURE	OF REL						
Type of Release					Volume of	Release			Recovered			
Crude oil	lenae					Dote and I	lour of Occurrence		9 B/O	Hour of Di	COOLWE	,
Source of Release Circulating Pump					4/5/2007 A			4/5/2007		SCOVELY	У	
Was Immediate Notice Given?					If YES, To		L	(/3/2007	1611			
☐ Yes ☐ No ☐ Not Require					Required							
By Whom?						Date and Hour						
N/A						N/A						
Was a Water	course Read	ch c d?	Yes 🗵	7 No		If YES, Volume Impacting the Watercourse. N/A						
If a Watercon	irse was Im	pacted, Descr				1 ""						
N/A	CD-+-	em and Reme	J'l A sais	mole #								
				n 14ken * 1. Bleeder valve o	closed, v	acuum truck o	alled.					
5 10000 74 7	on on on o	aton hamp wa	a icit opei	i, isleeder varve e	2105 04 , 1	HOHAIII II II IK	arrea.					
		and Cleanup /						_				
							fluid, vertical and					
				weiinead Prote um Corporation			ance to Surface V	vater Bo	วดง: >เมย	o, siie k	ANKII	NG IS U.
							knowledge and u	nderstan	d that pur	suant to NN	AOCD :	rules and
							nd perform correc					
							iarked as "Final R					
should their of	perations h	lave failed to	adequately	investigate and	remediat	e contaminati	ion that pose a thr	eat to gre	ound water	r, surface w	/ater, hi	uman health
or the environ	nment. In a	ddition, NMC ws and <u>/</u> or regi	CD accept	otance of a C-141	report d	loes not reliev	e the operator of	responsi	Mility for c	ompliance	with an	ly other
Teucial, State,	Of local la	ws and to regu	HIALIONS.				OIL CON	SEDV	A TION	DIVICE		
) _a ^	_\()(OIL COM	BLICV.	AITON	וטו עוכו	<u>ON</u>	
Signature: \		<u>X: </u>	4									
Printed Name	: Robert A	sher				Approved by	District Supervise	or;				
		gulatory Agen	nt]	Approval Dat	le:		expiration	Date:	_	
												-11,0
E-mail Addre	ss: boba(4)3	ypcnm com				Conditions of	[Approval;			Attached	d 🔲	
Date: Thursd	ау, Липс 21.	. 2007	Phone	: 505-748-4217								
Attach Addi					<u>+</u>							

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	
District RP	2RP-21
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party EO	G Resources I	nc.		OGRID 25575				
Contact Nan	^{ne} James	Kennedy			Contact Telephone 432-848-9146				
Contact ema	^{il} James_	Kennedy@ed	gresources.c	com	Incident # (assigned by OCD)				
Contact mai	ling address	5509 Champi	ons Drive, Mi	idland	, TX 7970	06			
			Location						
Latitude 32	.42585				Longitude	-103.72889			
			(NAD 83 in d	lecimal de	egrees to 5 decir	imal places)			
Site Name U	nocal AH	U Federal #1			Site Type	Tank Battery			
Date Release						pplicable) 30-015-26698			
Unit Letter	Section	Township	Range		Cou	unty			
В	01	22S	31E	Edd	у				
Surface Owne	er: State	✓ Federal ☐ Ti	rihal 🗌 Private i	(Name:)			
Surface Owne	a state	V Tederar Tr		(1 vanie.		,			
			Nature an	d Vo	lume of 1	Release			
	Materia	al(s) Released (Select a	ll that apply and attac	h calcula	tions or specific	ic justification for the volumes provided below)			
Crude Oi	il	Volume Release	ed (bbls) 10		•	Volume Recovered (bbls) 9			
Produced	l Water	Volume Release	ed (bbls)			Volume Recovered (bbls)			
		Is the concentration	tion of dissolved >10.000 mg/l?	chlorid	e in the	☐ Yes ☐ No			
Condensa	ate	Volume Release				Volume Recovered (bbls)			
☐ Natural C	Gas	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)						
Cause of Re	lease								
The bleed	er valve o	n circulation pu	mp was left op	oen. Th	ne bleeder	er valve was closed and a vacuum truck was			
called. The	e release v	was contained i	nside berm.						
1									

-	-4 4		0.0	_
Page	11	n f	· u	N
1 426	17	\boldsymbol{v}		U

Incident ID	
District RP	2RP-21
Facility ID	
Application ID	

	<u> </u>	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respo	nsible party consider this a major release?
☐ Yes ☑ No		
If YES, was immediate n	otice given to the OCD? By whom? To wh	hom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
☐ The source of the rela	ease has been stopped.	
☐ The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
Per 10 15 20 8 R (4) NM	IAC the responsible party may commence t	remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
		eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	The Control of the Co	responsionity for compliance with any other redefin, state, or rocal laws
Printed Name: James	Kennedy	Title: Environmental Specialist
Signature: <u>James</u>	FKennedy	Date: <u>5/6/21</u>
email: James Kenn	nedy@eogresources.com	Telephone: 432-848-9146
	, <u> </u>	
OCD Only		
Received by: Joce	elyn Harimon	Date: 07/06/2023

of New Mexico

Incident ID	NRM2207545266
District RP	2RP-21
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?	Unknow(It 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)?							
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No						
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No						
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No						
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No						
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No						
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil						
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 well 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	ls.						

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

Received by OCD: 6/6/2023 2:39:15 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 16 of	98
Incident ID	NRM2207545266	
District RP	2RP-21	
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: James Kennedy	Title: Environmental Specialist						
Signature:	Date: <u>5/6/21</u> Telephone: <u>432-848-9146</u>						
OCD Only Received by: Jocelyn Harimon	Date: 06/07/2023						

Page 17 of 98

Incident ID	NRM2207545266
District RP	2RP-21
Facility ID	
Application ID	

Closure

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

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

✓ A scaled site and sampling diagram as described in 19.15.29.	.11 NMAC
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	OC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certar may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: James Kennedy	Title: Environmental Specialist
Signature: <u>James F Kennedy</u>	Date: <u>5/6/21</u>
Signature: <u>James F Kennsdy</u> email: <u>James_Kennedy@eogresources.com</u>	Telephone: 432-848-9146
OCD Only	
Received by: Jocelyn Harimon	Date: 06/07/2023
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:07/06/2023
Printed Name: Jocelyn Harimon	Title: Environmental Specialist
·	

Attachment B Site Characterization Documentation

EOG Unocal AHU Federal #1

Karst Map

Legend

Page 19 of 98

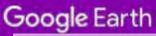
EOG Unocal AHU Federal #1

High

Low

Medium

EOG Unocal AHU Federal #1



© 2021 Gaagle



EOG Unocal AHU Federal #1

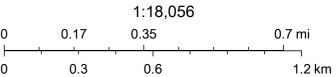


11/18/2020 10:09:31 AM **GIS WATERS PODs**

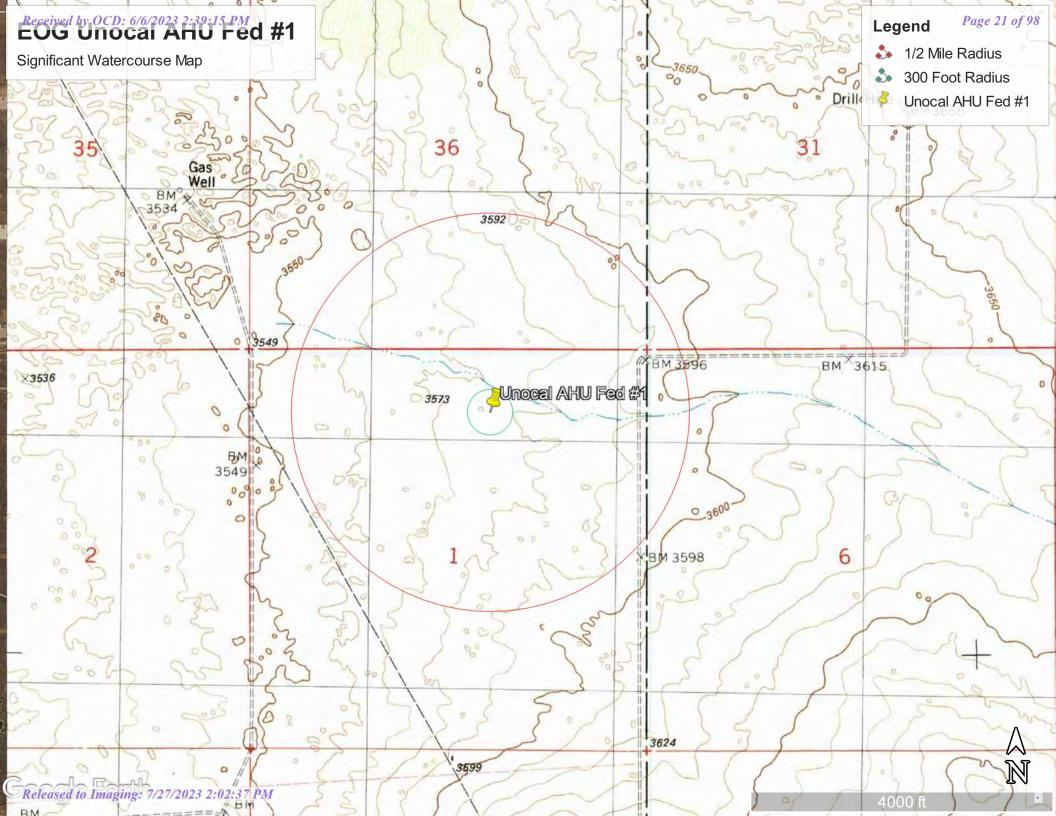
Pending

OSE District Boundary

SiteBoundaries



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





EOG Unocal AHU Federal #1



November 18, 2020

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

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

Received by OCD: 6/6/2023 2:39:15 PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE)

SPECIAL FLOOD HAZARD AREAS With BFE or Depth Zone AE, AO, AH, VE, AR

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 FLOOD HAZARD

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES | LILLI Levee, Dike, or Floodwall

OTHER AREAS

- - - Channel, Culvert, or Storm Sewer

(B) 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation - Coastal Transect

Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary**

--- Coastal Transect Baseline **Profile Baseline**

OTHER **FEATURES**

Hydrographic Feature

Digital Data Available

MAP PANELS

No Digital Data Available

Unmapped



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

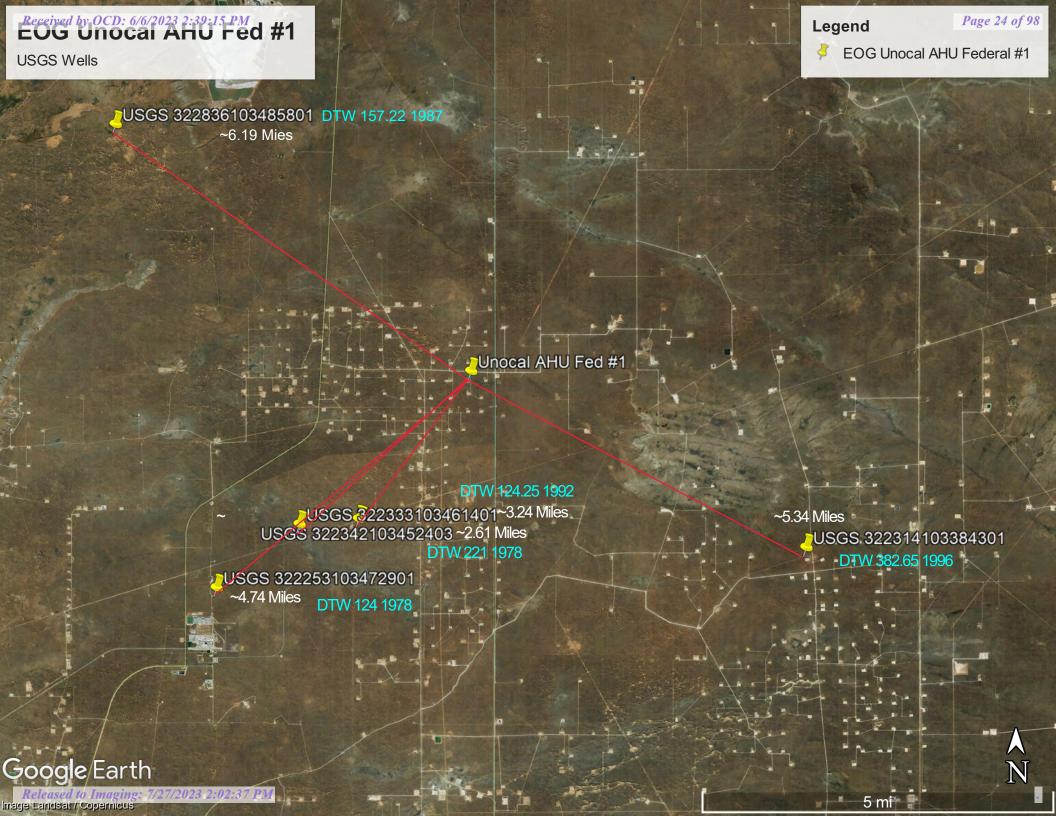
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/18/2020 at 5:17 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



2,000





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Released to Imaging: 7/27/2023 2:02:37 PM

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322253103472901

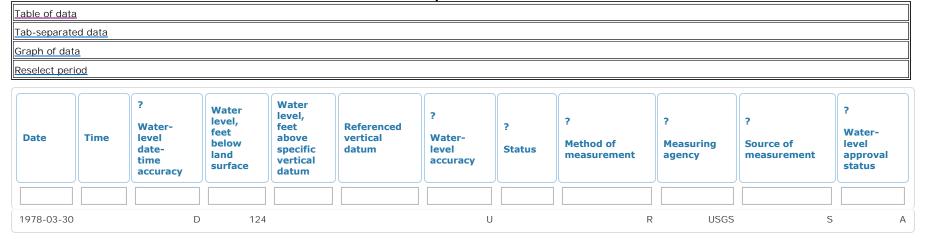
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322253103472901 22S.31E.20.244 WIPP-18

Eddy County, New Mexico Latitude 32°22'52.96", Longitude 103°47'28.65" NAD83 Land-surface elevation 3,455 feet above NAVD88 The depth of the hole is 1,060 feet below land surface.

Output formats



Explanation						
Section	Code	Description				
Water-level date-time accuracy	D	Date is accurate to the Day				
Water-level accuracy	U	Water level accuracy is unknown				
Status		The reported water-level measurement represents a static level				
Method of measurement	R	Reported, method not known.				
Measuring agency	USGS	U.S. Geological Survey				
Source of measurement	S	Measured by personnel of reporting agency.				
Water-level approval status	А	Approved for publication Processing and review completed.				

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-11-18 16:28:50 EST

0.28 0.25 nadww01

Released to Imaging: 7/27/2023 2:02:37 PM





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Released to Imaging: 7/27/2023 2:02:37 PM

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322314103384301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322314103384301 22S.32E.14.32322

Lea County, New Mexico

Latitude 32°23'23", Longitude 103°38'53" NAD27

Land-surface elevation 3,717.00 feet above NGVD29

The depth of the well is 435 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

				output form	uts				
? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
	level date- time	Water- level below date- time land	Water- level, feet level below above specific time surface	? Water level, feet level, feet above date- land surface level wertical datum	? Water- level, feet feet above date- time Water- level, feet get above specific vertical water- level date- time Water- level, feet datum level accuracy	? Water-level date-lime Water-level date-time Water-level water-level, feet above specific vertical wurface vertical water-level accuracy Water-level datum Provided Water-level accuracy Referenced vertical water-level accuracy Status	? Water-level date-lime Water land surface surface with the surface with t	? Water-level date-lime Water-level surface time ? Water level, feet above specific vertical Referenced vertical datum ? Water-level date-level above specific vertical Status ? Water level, feet above specific vertical Provided the surface of the surface	Water-level, feet feet above below land surface vertical time level, specific vertical surface feet wertical surface feet above specific vertical surface feet above specific datum feet accuracy feet above specific datum feet feet feet above specific datum feet feet feet above specific datum feet feet feet feet above specific datum feet feet feet feet feet feet feet above specific datum feet feet feet feet feet feet feet fee

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1972-09-13		D	367.80			2		U		U	Α
1976-12-09		D	369.84			2	R	U		U	А
1981-03-10		D	374.48			2	R	U		U	А
1986-04-10		D	378.44			2		U		U	А
1996-02-20		D	382.65			2		S		U	Α

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site

Automated retrievals

Help

Released to Imaging: 7/27/2023 2:02:37 PM

Data Tips

Explanation of terms

Subscribe for system changes

News

Accessibility FOIA Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>



Page Last Modified: 2020-11-18 16:35:48 EST

0.27 0.25 nadww01

Released to Imaging: 7/27/2023 2:02:37 PM



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Released to Imaging: 7/27/2023 2:02:37 PM

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs **site_no list =** • 322333103461401

022000.00.0

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322333103461401 22S.31E.15.13214

Eddy County, New Mexico

Latitude 32°23'40", Longitude 103°46'16" NAD27

Land-surface elevation 3,455 feet above NAVD88

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats Table of data Tab-separated data Graph of data Reselect period ? Water Water level, level, Waterfeet Referenced feet Water-**Date Time** vertical Waterlevel above

Received by OCD: 6/6/2023 2:39:15 PM

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1972-09-12		D	143.57			2	2	U	J	U	A
1987-10-20		D	124.94			2	2	L	J	U	A
1992-12-08		D	124.25			2	2	S	;	U	А

Explanation							
Section	Code	Description					
Water-level date-time accuracy	D	Date is accurate to the Day					
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot					
Status		The reported water-level measurement represents a static level					
Status	Р	Site was being pumped.					
Method of measurement	S	Steel-tape measurement.					
Method of measurement	U	Unknown method.					
Measuring agency		Not determined					
Source of measurement	U	Source is unknown.					
Water-level approval status	Α	Approved for publication Processing and review completed.					

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

Accessibility FOIA Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-11-18 16:33:09 EST

0.26 0.24 nadww01



Released to Imaging: 7/27/2023 2:02:37 PM



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Released to Imaging: 7/27/2023 2:02:37 PM

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322342103452403

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322342103452403 22S.31E.15.2244 H-5C

Eddy County, New Mexico Latitude 32°23'44", Longitude 103°45'24" NAD27 Land-surface elevation 3,508 feet above NGVD29

Output formats

Table of dat	<u>a</u>										
Tab-separat	ed data										
Graph of da	ta_										
Reselect per	iod										
Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1978-05-24	ļ	D	221			(0		Z USGS	:	S A

lanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	0	Water level accuracy to nearest foot
Status		The reported water-level measurement represents a static level
Method of measurement	Z	Other.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

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

Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> <u>Title: Groundwater for USA: Water Levels</u>

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-11-18 15:29:06 EST

0.27 0.24 nadww01

Released to Imaging: 7/27/2023 2:02:37 PM





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Released to Imaging: 7/27/2023 2:02:37 PM

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322836103485801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322836103485801 21S.31E.18.41133

Eddy County, New Mexico

Latitude 32°28'36", Longitude 103°48'58" NAD27

Land-surface elevation 3,309 feet above NAVD88

The depth of the well is 170 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

			<u>`</u>	output ioiii	1415				
t <u>a</u>									
? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
	ne level date- time	? Water- level date- time Water level below land surface	? Water- level below land surface Water level, feet above specific vertical	? Water- level date- time Water level, feet above specific vertical surface Water level, feet above specific vertical datum	? Water-level, feet above date-time Water-level date-time Referenced vertical datum Referenced vertical datum Referenced vertical datum Vater-level datum Referenced vertical datum Referenced vertical datum Referenced vertical datum	? Water-level, feet level, feet above specific time Water-level date-time Water level, feet above specific vertical surface Water-level, feet above specific vertical datum Referenced vertical water-level accuracy ? Water level, feet above specific vertical datum Status	re Water-level date-time Water level, feet above specific vertical surface sur	re Water-level date-time Water level, feet below land surface specific vertical surface with the surface wit	re Water-level, feet below land surface specific vertical specific vertical surface specific vertical specific vertica

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1959-04-15		D	158.80			2	Р	U		U	Α
1972-09-14		D	158.32			2		U		U	А
1976-12-03		D	157.94			2		U		U	А
1983-01-19		D	158.19			2		U		U	А
1987-10-14		D	157.22			2		U		U	А

Exp	lanation
-----	----------

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	Р	Site was being pumped.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data?

Feedback on this web site

Automated retrievals

Help

Released to Imaging: 7/27/2023 2:02:37 PM

Data Tips

Explanation of terms

Subscribe for system changes

<u>News</u>

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-11-18 16:39:41 EST

0.26 0.24 nadww01



Released to Imaging: 7/27/2023 2:02:37 PM

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

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-239-1

Laboratory Sample Delivery Group: 11220756 Client Project/Site: Unocal AHU Federal

For:

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

Attn: Becky Haskell

Debbie Simmons

Authorized for release by: 3/10/2021 4:05:09 PM

Debbie Simmons, Project Manager (281)240-4200

debbie.simmons@eurofinset.com

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

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



Review your project results through Total Access

Have a Question?

Ask
The Expert

Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 7/27/2023 2:02:37 PM

Client: GHD Services Inc. Laboratory Job ID: 890-239-1 Project/Site: Unocal AHU Federal SDG: 11220756

Table of Contents

Cover Page	1
Table of Contents	
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	24
Certification Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	33

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-239-1 Project/Site: Unocal AHU Federal

SDG: 11220756

Qualifiers

Subcontract

Qualifier **Qualifier Description** U Analyte was not detected.

Χ MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference

Glossary

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

DLC Decision Level Concentration (Radiochemistry) Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: GHD Services Inc.

Job ID: 890-239-1

Project/Site: Unocal AHU Federal

SDG: 11220756

Job ID: 890-239-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-239-1

Comments

No additional comments.

Receipt

The samples were received on 3/2/2021 1:43 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 13.0° C.

Receipt Exceptions

The following samples analyzed for method Btex 8021 were received and analyzed from an unpreserved bulk soil jar: TP1-S (890-239-1), TP1-2 (890-239-2), TP2-S (890-239-3), TP2-2 (890-239-4), TP2-4 (890-239-5), TP3-S (890-239-6), TP3-2 (890-239-7), TP3-4 (890-239-8), TP4-S (890-239-9), TP4-2 (890-239-10), TP5-S (890-239-11), TP5-2 (890-239-12), TP6-S (890-239-13), TP6-2 (890-239-14), TP7-S (890-239-15), TP7-2 (890-239-16), TP8-S (890-239-17) and TP8-2 (890-239-18).

The following samples were received at the laboratory outside the required temperature criteria: TP1-S (890-239-1), TP1-2 (890-239-2), TP2-S (890-239-3), TP2-2 (890-239-4), TP2-4 (890-239-5), TP3-S (890-239-6), TP3-2 (890-239-7), TP3-4 (890-239-8), TP4-S (890-239-10), TP5-S (890-239-11), TP5-2 (890-239-12), TP6-S (890-239-13), TP6-2 (890-239-14), TP7-S (890-239-15), TP7-2 (890-239-16), TP8-S (890-239-17) and TP8-2 (890-239-18). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

Subcontract non-Sister

See attached subcontract report.

Subcontract Work

Methods 300.0 - Chloride, 8015B - Mod TPH NM, 8021 - BTEX: These methods were subcontracted to Eurofins Midland. The subcontract laboratory certifications are different from that of the facility issuing the final report.

1

3

6

1

9

10

11

Date Received: 03/02/21 13:34

Job ID: 890-239-1

Client: GHD Services Inc. Project/Site: Unocal AHU Federal SDG: 11220756

Client Sample ID: TP1-S Lab Sample ID: 890-239-1 Date Collected: 03/02/21 08:15

Matrix: Solid

Method: 300.0 - Chloride - EPA 300.0										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1340		24.9		mg/kg		03/04/21 18:30	03/05/21 02:22	5

- Omorius	1040			99		00/01/21 10:00	00/00/21 02:22	•
- Method: 8015B - Mod TPH NM	- SW846 801	5B TPH ORO						
Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	628	49.9		mg/kg		03/03/21 13:00	03/03/21 14:06	1
Gasoline Range Hydrocarbons (GRO)	<49.9 U	J 49.9		mg/kg		03/03/21 13:00	03/03/21 14:06	1
Motor Oil Range Hydrocarbons (MRO)	153	49.9		mg/kg		03/03/21 13:00	03/03/21 14:06	1
Total TPH	781	49.9		mg/kg		03/03/21 13:00	03/03/21 14:06	1
Surrogate	%Recovery Q	Qualifier Limits				Prepared	Analyzed	Dil Fac

Surroyale	76Recovery Qualifier	LIIIIII	rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	117	70 - 135	03/03/21 13:00	03/03/21 14:06	1
o-Terphenyl	127	70 - 135	03/03/21 13:00	03/03/21 14:06	1

Method: 8021 - BTEX - '	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 22:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 22:09	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/05/21 16:30	03/05/21 22:09	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 22:09	1
Toluene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 22:09	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 22:09	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	101		70 - 130				03/05/21 16:30	03/05/21 22:09	1

Client Commis ID: TD4 0		Lab Camarla ID: 000 020 0	
Client Sample ID: TP1-2		Lab Sample ID: 890-239-2	

Date Collected: 03/02/21 08:20 Date Received: 03/02/21 13:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.02		mg/kg		03/04/21 18:30	03/05/21 02:27	1
- Method: 8015B - Mod TPH NM	- SW846 80)15B TPH	ORO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 13:03	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 13:03	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 13:03	1
Total TPH	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 135				03/03/21 13:00	03/03/21 13:03	1
o-Terphenyl	128		70 - 135				03/03/21 13:00	03/03/21 13:03	1

Method: 8021 - BTEX - Volatiles by 8021											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00198	U	0.00198		mg/kg		03/05/21 16:30	03/05/21 22:30	1		
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/05/21 16:30	03/05/21 22:30	1		
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/05/21 16:30	03/05/21 22:30	1		

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-239-1

SDG: 11220756

Client Sample ID: TP1-2

Client: GHD Services Inc.

Lab Sample ID: 890-239-2

Date Collected: 03/02/21 08:20 Date Received: 03/02/21 13:34

Project/Site: Unocal AHU Federal

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00198	U	0.00198		mg/kg		03/05/21 16:30	03/05/21 22:30	1
Toluene	<0.00198	U	0.00198		mg/kg		03/05/21 16:30	03/05/21 22:30	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/05/21 16:30	03/05/21 22:30	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/05/21 16:30	03/05/21 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130				03/05/21 16:30	03/05/21 22:30	1
4-Bromofluorobenzene	110		70 - 130				03/05/21 16:30	03/05/21 22:30	1

Client Sample ID: TP2-S Lab Sample ID: 890-239-3 Date Collected: 03/02/21 08:25 **Matrix: Solid**

Date Received: 03/02/21 13:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2640		24.8		mg/kg		03/04/21 18:30	03/05/21 02:33	5
Method: 8015B - Mod T	'PH NM - SW846 80	115R TPH OI	RO						

Michiga. 0010B - Mod 11 11 14M -		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	110						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	138		50.0		mg/kg		03/03/21 13:00	03/03/21 14:27	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 14:27	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 14:27	1
Total TPH	138		50.0		mg/kg		03/03/21 13:00	03/03/21 14:27	1

١	Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
	1-Chlorooctane	114		70 - 135	03/03/21 13:00 03/03/21 14:27	1
	o-Terphenyl	126		70 - 135	03/03/21 13:00 03/03/21 14:27	1

Method: 8021 - BTEX - Analyte	•	Qualifier	RL	MDI	Unit	р	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200		mg/kg			03/05/21 22:50	1
Ethylbenzene	0.00282		0.00200		mg/kg		03/05/21 16:30	03/05/21 22:50	1
m,p-Xylenes	0.00811		0.00400		mg/kg		03/05/21 16:30	03/05/21 22:50	1
o-Xylene	0.00410		0.00200		mg/kg		03/05/21 16:30	03/05/21 22:50	1
Toluene	<0.00200	U	0.00200		ma/ka		03/05/21 16:30	03/05/21 22:50	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	99	70 - 130	03/05/21 16:30	03/05/21 22:50	1
4-Bromofluorobenzene	107	70 - 130	03/05/21 16:30	03/05/21 22:50	1

0.00200

0.00200

mg/kg

mg/kg

0.0150

0.0122

Client Sample ID: TP2-2 Lab Sample ID: 890-239-4 **Matrix: Solid**

Date Collected: 03/02/21 08:30 Date Received: 03/02/21 13:34

Total BTEX

Total Xylenes

03/05/21 16:30 03/05/21 22:50

03/05/21 16:30 03/05/21 22:50

Method: 300.0 - Chloride - EP	A 300.0						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	247	5.04	mg/kg		03/04/21 18:30	03/05/21 02:49	1

Date Received: 03/02/21 13:34

Client Sample Results

Client: GHD Services Inc. Job ID: 890-239-1 Project/Site: Unocal AHU Federal SDG: 11220756

Client Sample ID: TP2-2 Date Collected: 03/02/21 08:30

Lab Sample ID: 890-239-4

Matrix: Solid

Method: 8015B - Mod TPH N	NM - SW846 8015B TPH ORO
Δnalvte	Result Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 14:48	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 14:48	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 14:48	1
Total TPH	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 135	03/03/21 13:00	03/03/21 14:48	1
o-Terphenyl	126		70 - 135	03/03/21 13:00	03/03/21 14:48	1

Method: 8021 - BTEX - Volatiles by 8021

MICHIOU. OUZ I - DILA - VI	Diatiles by 002 i								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/05/21 23:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/05/21 23:11	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/05/21 16:30	03/05/21 23:11	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/05/21 23:11	1
Toluene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/05/21 23:11	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/05/21 23:11	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/05/21 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130				03/05/21 16:30	03/05/21 23:11	1
4-Bromofluorobenzene	109		70 - 130				03/05/21 16:30	03/05/21 23:11	1

Client Sample ID: TP2-4 Lab Sample ID: 890-239-5 Matrix: Solid

Date Collected: 03/02/21 08:40

Date Received: 03/02/21 13:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	298		4.97		ma/ka		03/04/21 18:30	03/05/21 02:54		

Method: 8015E	- Mod TPH NM	- SW846 8015	R TPH ORO
MICHIOU. OUTSE	- IVIOU II II IVIVI	- 311040 00 13	

Method: 0010D - Mod 11 11 MM -	011040 00	יוו וו פטוו							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 15:09	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 15:09	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 15:09	1
Total TPH	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 15:09	1
	Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO)	AnalyteResultDiesel Range Organics (DRO)<50.0	AnalyteResultQualifierDiesel Range Organics (DRO)<50.0	Diesel Range Organics (DRO) <50.0 U 50.0 Gasoline Range Hydrocarbons (GRO) <50.0 U 50.0 Motor Oil Range Hydrocarbons (MRO) <50.0 U 50.0	Analyte Result Diesel Range Organics (DRO) <50.0 U 50.0 MDL Gasoline Range Hydrocarbons (GRO) <50.0	Analyte Result Diesel Range Organics (DRO) <50.0 U 50.0 MDL mg/kg Gasoline Range Hydrocarbons (GRO) <50.0	Analyte Result Diesel Range Organics (DRO) Result Solution Qualifier RL MDL Unit MDL D Gasoline Range Organics (DRO) <50.0	Analyte Result Diesel Range Organics (DRO) <50.0 U 50.0 MDL mg/kg Unit D mg/kg 03/03/21 13:00 Gasoline Range Hydrocarbons (GRO) <50.0	Analyte Result Diesel Range Organics (DRO) <50.0 U 50.0 MDL mg/kg Unit mg/kg D mg/kg Prepared 03/03/21 13:00 Analyzed 03/03/21 13:00 03/03/21 13:00 03/03/21 13:00 03/03/21 13:00 03/03/21 15:09 Gasoline Range Hydrocarbons (GRO) <50.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 135	03/03/21 13:00	03/03/21 15:09	1
o-Terphenyl	129		70 - 135	03/03/21 13:00	03/03/21 15:09	1

Method: 8021 - BTEX - Volatiles by 8021									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 23:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 23:32	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/05/21 16:30	03/05/21 23:32	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 23:32	1
Toluene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 23:32	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 23:32	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/05/21 23:32	1

Job ID: 890-239-1 SDG: 11220756

Client Sample ID: TP2-4

Date Received: 03/02/21 13:34

Project/Site: Unocal AHU Federal

Client: GHD Services Inc.

Lab Sample ID: 890-239-5 Date Collected: 03/02/21 08:40

Matrix: Solid

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104	70 - 130	03/05/21 16:30	03/05/21 23:32	1
4-Bromofluorobenzene	115	70 - 130	03/05/21 16:30	03/05/21 23:32	1

Client Sample ID: TP3-S Lab Sample ID: 890-239-6

Date Collected: 03/02/21 08:45 **Matrix: Solid**

Date Received: 03/02/21 13:34

Method: 300.0 - Chloride - EPA 300.0										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	28.9		4.95		mg/kg		03/04/21 18:30	03/05/21 03:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 15:31	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 15:31	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 15:31	1
Total TPH	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 135	03/03/21 1	3:00	03/03/21 15:31	1
o-Terphenyl	121		70 - 135	03/03/21 1	3:00	03/03/21 15:31	1

	Me	thod:	8021	- B	TEX	-	Volatiles	by	802	1
	_								_	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/05/21 23:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/05/21 23:52	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/05/21 16:30	03/05/21 23:52	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/05/21 23:52	1
Toluene	<0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/05/21 23:52	1
Total BTEX	<0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/05/21 23:52	1
Total Xylenes	<0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/05/21 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130	03/05/21 16:30	03/05/21 23:52	1
4-Bromofluorobenzene	111		70 - 130	03/05/21 16:30	03/05/21 23:52	1

Client Sample ID: TP3-2 Lab Sample ID: 890-239-7 Date Collected: 03/02/21 08:50 **Matrix: Solid**

Date Received: 03/02/21 13:34

Released to Imaging: 7/27/2023 2:02:37 PM

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		4.95		mg/kg		03/04/21 18:30	03/05/21 03:15	1
Method: 8015B - Mod TF	PH NM - SW846 801	15B TPH ORO							

ı	Wiethod: 8015B - Wod TPH NW -	METROD: 8015B - MOD 1PH NM - 5W846 8015B 1PH ORO								
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (DRO)	5170		49.9		mg/kg		03/03/21 13:00	03/03/21 15:52	1
	Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 15:52	1
	Motor Oil Range Hydrocarbons (MRO)	749		49.9		mg/kg		03/03/21 13:00	03/03/21 15:52	1
	Total TPH	5920		49.9		mg/kg		03/03/21 13:00	03/03/21 15:52	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-239-1 Project/Site: Unocal AHU Federal SDG: 11220756

Lab Sample ID: 890-239-7 **Client Sample ID: TP3-2**

Date Collected: 03/02/21 08:50 Matrix: Solid Date Received: 03/02/21 13:34

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	70		70 - 135	03/03/21 13:00 03/03/21 15:52	1
o-Terphenyl	70		70 - 135	03/03/21 13:00 03/03/21 15:52	1

									-
o-Terphenyl	70		70 - 135				03/03/21 13:00	03/03/21 15:52	1
- Method: 8021 - BTEX - Vo	platiles by 8021								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	\overline{U}	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:13	1
Ethylbenzene	< 0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:13	1
m,p-Xylenes	< 0.00398	U	0.00398		mg/kg		03/05/21 16:30	03/06/21 00:13	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:13	1
Toluene	< 0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:13	1
Total BTEX	< 0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:13	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	101		70 - 130				03/05/21 16:30	03/06/21 00:13	1
4-Bromofluorobenzene	112		70 - 130				03/05/21 16:30	03/06/21 00:13	1

Client Sample ID: TP3-4 Lab Sample ID: 890-239-8 Date Collected: 03/02/21 08:55 Matrix: Solid

Date Received: 03/02/21 13:34

Method: 300.0 - Chloride - EF	PA 300.0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.7		4.97		mg/kg		03/04/21 18:30	03/05/21 03:21	1
Method: 8015B - Mod TPH NI	VI - SW846 80	15B TPH O	RO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	74.4		49.9		ma/ka		03/03/21 13:00	03/03/21 16:14	1

Analyte	Result	Qualifier	KL	MDL	Unit	ט	Prepared	Anaiyzea	DII Fac
Diesel Range Organics (DRO)	74.4		49.9		mg/kg		03/03/21 13:00	03/03/21 16:14	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 16:14	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 16:14	1
Total TPH	74.4		49.9		mg/kg		03/03/21 13:00	03/03/21 16:14	1

1	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	119		70 - 135	03/03/21 13:00	03/03/21 16:14	1
L	o-Terphenyl	128		70 - 135	03/03/21 13:00	03/03/21 16:14	1

Method:	8021 -	BTEX - '	Volatiles	by 8021
---------	--------	----------	-----------	---------

Method. 0021 - DILA	- volatiles by our i								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:34	1
Ethylbenzene	< 0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:34	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/05/21 16:30	03/06/21 00:34	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:34	1
Toluene	< 0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:34	1
Total BTEX	< 0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:34	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 00:34	1
0	0/ 🗖	O	Limita				Duamanad	A a lo a al	Dil 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/05/21 16:30	03/06/21 00:34	1
4-Bromofluorobenzene	113		70 - 130	03/05/21 16:30	03/06/21 00:34	1

Job ID: 890-239-1 SDG: 11220756

Client: GHD Services Inc.
Project/Site: Unocal AHU Federal

Lab Sample ID: 890-239-9

Date Collected: 03/02/21 09:20 Date Received: 03/02/21 13:34

Client Sample ID: TP4-S

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.9		5.00		mg/kg		03/04/21 18:30	03/05/21 03:26	1
Method: 8015B - Mod TPH NM	- SW846 80	15B TPH	ORO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	60.1		49.8		mg/kg		03/03/21 13:00	03/03/21 16:35	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/03/21 13:00	03/03/21 16:35	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/03/21 13:00	03/03/21 16:35	1
Total TPH	60.1		49.8		mg/kg		03/03/21 13:00	03/03/21 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 135				03/03/21 13:00	03/03/21 16:35	1
o-Terphenyl	112		70 - 135				03/03/21 13:00	03/03/21 16:35	1

_ Method: 8021 - BTEX - V	olatiles by 8021								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 01:58	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/05/21 16:30	03/06/21 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 01:58	1
Toluene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 01:58	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 01:58	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130				03/05/21 16:30	03/06/21 01:58	1

4-Bromofluorobenzene 95 70 - 130 03/05/21 16:30 03/06/21 01:58 1

Client Sample ID: TP4-2

Date Collected: 03/02/21 09:25

Lab Sample ID: 890-239-10

Matrix: Solid

Date Received: 03/02/21 13:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		5.00		mg/kg		03/04/21 18:30	03/05/21 03:31	1
Method: 8015B - Mod TPH NM	- SW846 80)15B TPH	ORO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 16:56	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 16:56	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 16:56	1
Total TPH	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 135				03/03/21 13:00	03/03/21 16:56	1
o-Terphenyl	123		70 - 135				03/03/21 13:00	03/03/21 16:56	1
Method: 8021 - BTEX - Volatile	s by 8021								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 02:18	1
Ethylbenzene	< 0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 02:18	1
Luiyibelizelle									
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/05/21 16:30	03/06/21 02:18	1

Job ID: 890-239-1 SDG: 11220756

Project/Site: Unocal AHU Federal **Client Sample ID: TP4-2**

Client: GHD Services Inc.

Lab Sample ID: 890-239-10

Matrix: Solid

Date Collected: 03/02/21 09:25 Date Received: 03/02/21 13:34

Method: 8021 - BTEX - Vola	atiles by 8021 (Continued)
Analyte	Result Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 02:18	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 02:18	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 1-Diffuorobenzene	100		70 130				03/05/21 16:30	03/06/21 02:18	

100 70 - 130 4-Bromofluorobenzene 111 03/05/21 16:30 03/06/21 02:18 Client Sample ID: TP5-S

Date Collected: 03/02/21 09:30

Lab Sample ID: 890-239-11 **Matrix: Solid**

03/03/21 13:00 03/03/21 17:38

Date Received: 03/02/21 13:34

Total TPH

Method: 300.0 - Chloride - EPA 300.0

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1	5.00	mg/kg		03/04/21 18:30	03/05/21 03:37	1

Method: 8015B - Mod TPH NM -	SW846 80	15B TPH O	RO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 17:38	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 17:38	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		ma/ka		03/03/21 13:00	03/03/21 17:38	1

<50.0 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 135	03/03/21 13:00	03/03/21 17:38	1
o-Terphenyl	123		70 - 135	03/03/21 13:00	03/03/21 17:38	1

50.0

mg/kg

Method: 802	I - BTEX - Volatiles	by 8021
-------------	----------------------	---------

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 02:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 02:39	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/05/21 16:30	03/06/21 02:39	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 02:39	1
Toluene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 02:39	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 02:39	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	100		70 - 130	03/05/21 16:30	03/06/21 02:39	1
4-Bromofluorobenzene	111		70 - 130	03/05/21 16:30	03/06/21 02:39	1

Client Sample ID: TP5-2 Lab Sample ID: 890-239-12 Date Collected: 03/02/21 09:35

Date Received: 03/02/21 13:34

Method: 300.0 - Chloride - EPA	A 300.0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		4.96		mg/kg		03/04/21 18:30	03/05/21 03:42	1

_									
Method: 8015B - Mod TPH NM	- SW846 80	15B TPH O	RO						
Analyte	Result	Qualifier	RL	MDL (Jnit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9	r	ng/kg		03/03/21 13:00	03/03/21 18:04	1

Eurofins Carlsbad

Matrix: Solid

Client: GHD Services Inc. Job ID: 890-239-1 Project/Site: Unocal AHU Federal SDG: 11220756

Client Sample ID: TP5-2 Lab Sample ID: 890-239-12 Date Collected: 03/02/21 09:35

Matrix: Solid

03/05/21 16:30 03/06/21 03:00

Date Received: 03/02/21 13:34
Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 18:04	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 18:04	1
Total TPH	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 135				03/03/21 13:00	03/03/21 18:04	1
o-Terphenyl	128		70 - 135				03/03/21 13:00	03/03/21 18:04	1

IV	iletnoa: 8021 - BTEX - Volatile	es by 8021								
Α	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
B	enzene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:00	1
E	thylbenzene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:00	1
m	n,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/05/21 16:30	03/06/21 03:00	1
О	-Xylene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:00	1
T	oluene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:00	1
T	otal BTEX	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:00	1
T	otal Xylenes	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:00	1
s	urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,	,4-Difluorobenzene	106		70 - 130				03/05/21 16:30	03/06/21 03:00	1

Client Sample ID: TP6-S Lab Sample ID: 890-239-13 **Matrix: Solid**

70 - 130

Date Collected: 03/02/21 09:50

Date Received: 03/02/21 13:34

4-Bromofluorobenzene

Method	: 300.0 - Chl	oride - I	FPA 300 0
INICLITUR	. 300.0 - 011	oilue - i	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.4	5.00	mg/kg		03/04/21 19:00	03/05/21 04:14	1

Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO

109

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/03/21 13:00	03/03/21 18:26	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/03/21 13:00	03/03/21 18:26	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/03/21 13:00	03/03/21 18:26	1
Total TPH	<49.8	U	49.8		mg/kg		03/03/21 13:00	03/03/21 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 135	03/03/21 13:00	03/03/21 18:26	1
o-Terphenyl	126		70 - 135	03/03/21 13:00 (03/03/21 18:26	1

Method: 8021 - BTEX - Volatiles by 8021									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:20	1
Ethylbenzene	< 0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/05/21 16:30	03/06/21 03:20	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:20	1
Toluene	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:20	1
Total BTEX	< 0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:20	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/05/21 16:30	03/06/21 03:20	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-239-1 Project/Site: Unocal AHU Federal SDG: 11220756

Client Sample ID: TP6-S Lab Sample ID: 890-239-13

Date Collected: 03/02/21 09:50 **Matrix: Solid** Date Received: 03/02/21 13:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130	03/05/21 16:30	03/06/21 03:20	1
4-Bromofluorobenzene	107		70 - 130	03/05/21 16:30	03/06/21 03:20	1

Client Sample ID: TP6-2 Lab Sample ID: 890-239-14

Date Collected: 03/02/21 09:55 **Matrix: Solid**

Date Received: 03/02/21 13:34

Method: 300.0 - Chloride - EPA 300.0									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.37		4.96		mg/kg		03/04/21 19:00	03/05/21 04:30	1
_									

Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO									
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (DRO)	<49.9	U	49.9	mg/kg		03/03/21 13:00	03/03/21 18:47	1
	Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9	mg/kg		03/03/21 13:00	03/03/21 18:47	1
	Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9	mg/kg		03/03/21 13:00	03/03/21 18:47	1
	Total TPH	<49.9	U	49.9	mg/kg		03/03/21 13:00	03/03/21 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 135	03/03/21 13:00	03/03/21 18:47	1
o-Terphenyl	129		70 - 135	03/03/21 13:00	03/03/21 18:47	1

	Method:	8021	- BTEX -	Volatiles	by	802	1
ı						_	-

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 03:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 03:41	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/05/21 16:30	03/06/21 03:41	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 03:41	1
Toluene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 03:41	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 03:41	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4.4.5:6							00/05/04 40 00	00/00/01 00 11	

Juliogate	watery qualifier	Lillits	rrepared	Allalyzea	Dii i ac
1,4-Difluorobenzene	103	70 - 130	03/05/21 16:30	03/06/21 03:41	1
4-Bromofluorobenzene	104	70 - 130	03/05/21 16:30	03/06/21 03:41	1

Client Sample ID: TP7-S Lab Sample ID: 890-239-15 Date Collected: 03/02/21 10:10 **Matrix: Solid**

Date Received: 03/02/21 13:34

Released to Imaging: 7/27/2023 2:02:37 PM

Method: 300.0 - Chloride - EPA 300.0										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	20.5		5.02		mg/kg		03/04/21 19:00	03/05/21 04:35	1

-									
Method: 8015B - Mod TPH NM -	SW846 80	15B TPH C	ORO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:08	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:08	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:08	1
Total TPH	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:08	1
	Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO)	AnalyteResultDiesel Range Organics (DRO)<50.0	AnalyteResult QualifierDiesel Range Organics (DRO)<50.0	Diesel Range Organics (DRO) <50.0 U 50.0 Gasoline Range Hydrocarbons (GRO) <50.0 U 50.0 Motor Oil Range Hydrocarbons (MRO) <50.0 U 50.0	Analyte Result Diesel Range Organics (DRO) <50.0 U 50.0 MDL Gasoline Range Hydrocarbons (GRO) <50.0	Analyte Result Diesel Range Organics (DRO) Result Solution Qualifier RL Solution MDL Unit Diesel Range Organics (DRO) <50.0	Analyte Result Diesel Range Organics (DRO) Result Solution Qualifier RL MDL MDL Unit D Gasoline Range Organics (DRO) <50.0	Analyte Result Diesel Range Organics (DRO) <50.0 U 50.0 MDL mg/kg Unit D mg/kg 03/03/21 13:00 Gasoline Range Hydrocarbons (GRO) <50.0	Analyte Result Diesel Range Organics (DRO) < 50.0 U 50.0 MDL mg/kg Unit mg/kg D p mepared prepared 03/03/21 13:00 Analyzed 03/03/21 13:00 03/03/21 13:00 03/03/21 13:00 03/03/21 13:00 03/03/21 19:08 Gasoline Range Hydrocarbons (GRO) < 50.0

Job ID: 890-239-1

SDG: 11220756

Client Sample ID: TP7-S

Project/Site: Unocal AHU Federal

Client: GHD Services Inc.

Date Collected: 03/02/21 10:10 Date Received: 03/02/21 13:34

Lab Sample ID: 890-239-15

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	125		70 - 135	03/03/21 13:00 03/03/21 19:08	1
o-Terphenyl	129		70 - 135	03/03/21 13:00 03/03/21 19:08	1

Method: 8021 - BTEX - Volatiles by 8021 Analyte Result Qualifier RL MDL Unit **Prepared** Analyzed Dil Fac Benzene <0.00198 U 0.00198 mg/kg 03/05/21 16:30 03/06/21 04:02 Ethylbenzene <0.00198 U 0.00198 03/05/21 16:30 03/06/21 04:02 mg/kg m,p-Xylenes <0.00397 U 0.00397 mg/kg 03/05/21 16:30 03/06/21 04:02 o-Xylene 03/05/21 16:30 03/06/21 04:02 <0.00198 U 0.00198 mg/kg Toluene <0.00198 U 0.00198 mg/kg 03/05/21 16:30 03/06/21 04:02 03/05/21 16:30 03/06/21 04:02 **Total BTEX** <0.00198 U 0.00198 mg/kg 0.00198 03/05/21 16:30 03/06/21 04:02 Total Xylenes <0.00198 U mg/kg %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

1,4-Difluorobenzene 103 70 - 130 03/05/21 16:30 03/06/21 04:02 4-Bromofluorobenzene 113 70 - 130 03/05/21 16:30 03/06/21 04:02

Client Sample ID: TP7-2 Date Collected: 03/02/21 10:15

Lab Sample ID: 890-239-16 **Matrix: Solid**

Date Received: 03/02/21 13:34

Method: 300.0 - Chioride - EPA 3	300.0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		4.99		mg/kg		03/04/21 19:00	03/05/21 04:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:29	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:29	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:29	1
Total TPH	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:29	1

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	115	70 - 135	03/03/21 13:00 03/03/21 19:29	1
o-Terphenyl	125	70 - 135	03/03/21 13:00 03/03/21 19:29	1

Method: 8021 - BTEX - Volatiles by 8021

Michiga, OUL 1 - DI LA - Voic	itiles by our i								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 04:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 04:23	1
m,p-Xylenes	< 0.00399	U	0.00399		mg/kg		03/05/21 16:30	03/06/21 04:23	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 04:23	1
Toluene	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 04:23	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 04:23	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/05/21 16:30	03/06/21 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	l Dil Fac
1,4-Difluorobenzene	100		70 - 130	03/05/21 16:30 03/06/21 04	23 1
4-Bromofluorobenzene	115		70 - 130	03/05/21 16:30 03/06/21 04	:23 1

Client: GHD Services Inc. Job ID: 890-239-1 Project/Site: Unocal AHU Federal SDG: 11220756

Lab Sample ID: 890-239-17 **Client Sample ID: TP8-S** Date Collected: 03/02/21 10:30

Matrix: Solid

Date Received: 03/02/21 13:34

Method: 300.0 - Chloride - EPA	300.0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		5.05		mg/kg		03/04/21 19:00	03/05/21 04:46	1
- Method: 8015B - Mod TPH NM	- SW846 80	015B TPH	ORO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:49	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:49	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:49	1
Total TPH	<50.0	U	50.0		mg/kg		03/03/21 13:00	03/03/21 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135				03/03/21 13:00	03/03/21 19:49	1
o-Terphenyl	122		70 - 135				03/03/21 13:00	03/03/21 19:49	1

Method: 8021 - BTEX - Vo	platiles by 8021								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 04:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 04:43	1
m,p-Xylenes	< 0.00403	U	0.00403		mg/kg		03/05/21 16:30	03/06/21 04:43	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 04:43	1
Toluene	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 04:43	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 04:43	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/05/21 16:30	03/06/21 04:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	98		70 - 130				03/05/21 16:30	03/06/21 04:43	1
4-Bromofluorobenzene	114		70 - 130				03/05/21 16:30	03/06/21 04:43	1

Lab Sample ID: 890-239-18 **Client Sample ID: TP8-2** Date Collected: 03/02/21 10:35 **Matrix: Solid**

Date Received: 03/02/21 13:34

Method: 300.0 - Chloride - EPA	300.0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.51		5.00		mg/kg		03/04/21 19:00	03/05/21 05:02	1
- Method: 8015B - Mod TPH NM	- SW846 80	15B TPH	ORO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 20:10	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 20:10	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 20:10	1
Total TPH	<49.9	U	49.9		mg/kg		03/03/21 13:00	03/03/21 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 135				03/03/21 13:00	03/03/21 20:10	1
o-Terphenyl	124		70 - 135				03/03/21 13:00	03/03/21 20:10	1
- Method: 8021 - BTEX - Volatile	s by 8021								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/06/21 05:04	1
Ethylbenzene	< 0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/06/21 05:04	1
m,p-Xylenes	< 0.00402	U	0.00402		mg/kg		03/05/21 16:30	03/06/21 05:04	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/05/21 16:30	03/06/21 05:04	1

Client Sample Results

Client: GHD Services Inc.

Project/Site: Unocal AHU Federal

Job ID: 890-239-1
SDG: 11220756

Client Sample ID: TP8-2 Lab Sample ID: 890-239-18

Date Collected: 03/02/21 10:35

Matrix: Solid

Date Received: 03/02/21 13:34

Method: 8021 - BTEX - Volatiles by 8021 (Continued) Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Toluene <0.00201 U 0.00201 03/05/21 16:30 03/06/21 05:04 mg/kg Total BTEX <0.00201 U 03/05/21 16:30 03/06/21 05:04 0.00201 mg/kg 03/05/21 16:30 03/06/21 05:04 Total Xylenes <0.00201 U 0.00201 mg/kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,4-Difluorobenzene 100 70 - 130 03/05/21 16:30 03/06/21 05:04 70 - 130 03/05/21 16:30 03/06/21 05:04 4-Bromofluorobenzene 111

6

a

10

Surrogate Summary

Job ID: 890-239-1 Client: GHD Services Inc. Project/Site: Unocal AHU Federal SDG: 11220756

Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO

Matrix: Solid Prep Type: Total/NA

		100	OTPH Percent Su	rrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-135)	(70-135)	
890-239-1	TP1-S	117	127	
890-239-2	TP1-2	116	128	
890-239-3	TP2-S	114	126	
890-239-4	TP2-2	113	126	
890-239-5	TP2-4	118	129	
890-239-6	TP3-S	113	121	
890-239-7	TP3-2	70	70	
890-239-8	TP3-4	119	128	
890-239-9	TP4-S	120	112	
890-239-10	TP4-2	117	123	
890-239-11	TP5-S	113	123	
890-239-12	TP5-2	123	128	
890-239-13	TP6-S	114	126	
890-239-14	TP6-2	116	129	
890-239-15	TP7-S	125	129	
890-239-16	TP7-2	115	125	
890-239-17	TP8-S	108	122	
000 =00	TP8-2	114	124	

OTPH = o-Terphenyl

Method: 8021 - BTEX - Volatiles by 8021

Matrix: SOIL Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(70-130)	
690433-009 S	Matrix Spike	103	
690433-009 SD	Matrix Spike Duplicate	105	
7722663-1-BKS	Lab Control Sample	90	
7722663-1-BLK	Method Blank	104	
7722663-1-BSD	Lab Control Sample Dup	101	
Surrogate Legend			

Method: 8021 - BTEX - Volatiles by 8021

Matrix: Solid Prep Type: Total/NA

_			Perc	ent Surrogate Recovery (Acceptance Limits)
		BFB	DFBZ	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-239-1	TP1-S	108	101	
890-239-2	TP1-2	110	107	
890-239-3	TP2-S	107	99	
890-239-4	TP2-2	109	103	
890-239-5	TP2-4	115	104	
890-239-6	TP3-S	111	103	
890-239-7	TP3-2	112	101	

Surrogate Summary

Client: GHD Services Inc.

Project/Site: Unocal AHU Federal

SDG: 11220756

Method: 8021 - BTEX - Volatiles by 8021 (Continued)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate	e Recovery (Acceptance Limits)
		BFB	DFBZ	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-239-8	TP3-4	113	95	
890-239-9	TP4-S	95	106	
890-239-10	TP4-2	111	100	
890-239-11	TP5-S	111	100	
890-239-12	TP5-2	109	106	
890-239-13	TP6-S	107	103	
890-239-14	TP6-2	104	103	
890-239-15	TP7-S	113	103	
890-239-16	TP7-2	115	100	
890-239-17	TP8-S	114	98	
890-239-18	TP8-2	111	100	
Surrogate Legend				
BFB = 4-Bromofluorob	penzene			
DFBZ = 1,4-Difluorobe	enzene			

Eurofins Carlsbad

Released to Imaging: 7/27/2023 2:02:37 PM

1

5

9

11

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

D %Rec

%Rec

%Rec

%Rec

D %Rec

99

97

%Rec

97

96

96

Client Sample ID: Lab Control Sample Dup

%Rec.

Limits

80 - 120

%Rec.

Limits

80 - 120

%Rec.

Limits

Client Sample ID: Matrix Spike Duplicate

80 - 120

%Rec.

Limits

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 3152649 P

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 3152649 P

RPD

Prep Batch: 3152649 P

Prep Batch: 3152649_P

QC Sample Results

Client: GHD Services Inc. Job ID: 890-239-1 SDG: 11220756 Project/Site: Unocal AHU Federal

Method: 300.0 - Chloride - EPA 300.0

Lab Sample ID: 7722548-1-BLK

Matrix: SOIL

Analysis Batch: 3152649

BLANK BLANK

Sample Sample

Sample Sample

Sample Sample

Sample Sample

31.5

Result Qualifier

31.5

Result Qualifier

Result Qualifier

2640

2640

Result Qualifier

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared <5 U 5 03/04/21 18:30 03/05/21 01:02 Chloride mg/kg

LCS LCS

LCSD LCSD

MS MS

MSD MSD

MS MS

MSD MSD

275

Result Qualifier

275

Result Qualifier

Result Qualifier

3870

3870

Result Qualifier

240

Result Qualifier

240

Result Qualifier

Unit

Unit

mg/kg

Unit

Unit

Unit

Unit

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Spike

Added

250

Spike

Added

Spike

Added

1240

Spike

Added

1240

Spike

Added

251

Spike

Added

251

250

Lab Sample ID: 7722548-1-BKS

Matrix: SOIL

Chloride

Chloride

Analyte

Analysis Batch: 3152649

Analyte

Lab Sample ID: 7722548-1-BSD

Matrix: SOIL

Analysis Batch: 3152649

Analyte

Lab Sample ID: 690144-003 S

Matrix: SOIL

Analysis Batch: 3152649

Chloride

Lab Sample ID: 690144-003 SD

Matrix: SOIL

Analysis Batch: 3152649

Analyte

Chloride

Lab Sample ID: 690147-004 S **Matrix: SOIL**

Chloride

Analyte

Analysis Batch: 3152649

Analyte

Lab Sample ID: 690147-004 SD

Matrix: SOIL

Analysis Batch: 3152649

Chloride Lab Sample ID: 7722549-1-BLK

Matrix: SOIL

Analysis Batch: 3152651

BLANK BLANK Result Qualifier Analyte

Chloride <5 U

RL 5 MDL Unit mg/kg

Prepared 03/04/21 19:00 03/05/21 03:58

RPD

Limit

20

Prep Type: Total/NA Prep Batch: 3152649 P RPD

Limit

80 - 120 **Client Sample ID: Matrix Spike**

RPD

Prep Type: Total/NA Prep Batch: 3152649 P

%Rec.

Limits

80 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3152649 P

%Rec. **RPD** Limits RPD Limit

80 - 120 0

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 3152651 P

> Analyzed Dil Fac

Analysis Batch: 3152651

QC Sample Results

Client: GHD Services Inc. Job ID: 890-239-1 SDG: 11220756 Project/Site: Unocal AHU Federal

Method: 300.0 - Chloride - EPA 300.0

Lab Sample ID: 7722549-1-BKS Client Sample ID: Lab Control Sample **Matrix: SOIL** Prep Type: Total/NA

Prep Batch: 3152651_P

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec 250 Chloride 240 mg/kg 96 80 - 120

Lab Sample ID: 7722549-1-BSD Client Sample ID: Lab Control Sample Dup **Matrix: SOIL** Prep Type: Total/NA Prep Batch: 3152651 P Analysis Batch: 3152651 Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 80 - 120 Chloride 240 mg/kg n

Lab Sample ID: 690144-013 S Client Sample ID: Matrix Spike **Matrix: SOIL** Prep Type: Total/NA Analysis Batch: 3152651 Prep Batch: 3152651_P Sample Sample Spike MS MS %Rec. Limits Result Qualifier Added Result Qualifier **Analyte** Unit %Rec Chloride 14.4 250 261 99 80 - 120 mg/kg

Lab Sample ID: 690144-013 SD **Client Sample ID: Matrix Spike Duplicate Matrix: SOIL** Prep Type: Total/NA Analysis Batch: 3152651 Prep Batch: 3152651 P Spike MSD MSD %Rec. **RPD** Sample Sample Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 250 80 - 120 14.4 261 mg/kg

Lab Sample ID: 690333-005 S **Client Sample ID: Matrix Spike Matrix: SOIL** Prep Type: Total/NA Analysis Batch: 3152651 Prep Batch: 3152651_P

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 8.18 252 256 98 80 - 120 mg/kg

Lab Sample ID: 690333-005 SD **Client Sample ID: Matrix Spike Duplicate Matrix: SOIL** Prep Type: Total/NA Analysis Batch: 3152651 Prep Batch: 3152651 P Sample Sample Spike MSD MSD %Rec. **RPD**

Result Qualifier Added Result Qualifier %Rec Limits **RPD** Limit Analyte Unit D 8.18 252 256 Chloride mg/kg 98 80 - 120 0 20

Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO

Lab Sample ID: 7722496-1-BLK Client Sample ID: Method Blank Matrix: SOIL Prep Type: Total/NA Analysis Batch: 3152504 Prep Batch: 3152504 P RIANK RIANK

	DLANK	DLAINN							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/03/21 13:00	03/03/21 12:00	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/03/21 13:00	03/03/21 12:00	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/03/21 13:00	03/03/21 12:00	1

Client: GHD Services Inc. Job ID: 890-239-1 SDG: 11220756 Project/Site: Unocal AHU Federal

Method: 8015B - Mod TPH NM - SW846 8015B TPH ORO (Continued)

Lab Sample ID: 7722496-1-BKS

Matrix: SOIL

Analysis Batch: 3152504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 3152504_P

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Analyte D Diesel Range Organics (DRO) 1000 959 mg/kg 96 70 - 135 Gasoline Range Hydrocarbons 1000 1000 mg/kg 100 70 - 135

(GRO)

Lab Sample ID: 7722496-1-BSD

Matrix: SOIL

Analysis Batch: 3152504

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152504_P

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 961 70 - 135 20 Diesel Range Organics (DRO) mg/kg 96 0 1000 998 100 70 - 135 Gasoline Range Hydrocarbons mg/kg 0 20 (GRO)

Lab Sample ID: 690144-002 S

Matrix: SOIL

Analysis Batch: 3152504

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 3152504_P

Sample Sample Spike MS MS %Rec. Result Qualifier Result Qualifier Unit %Rec Limits Analyte Added D 997 Diesel Range Organics (DRO) <50 859 mg/kg 86 70 - 135Gasoline Range Hydrocarbons <50 997 934 mg/kg 94 70 - 135 (GRO)

MSD MSD

862

928

Result Qualifier

Unit

mg/kg

mg/kg

Spike

Added

999

999

Lab Sample ID: 690144-002 SD

Matrix: SOIL

Analyte

(GRO)

Analysis Batch: 3152504

Diesel Range Organics (DRO)

Gasoline Range Hydrocarbons

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3152504 P %Rec. **RPD** %Rec Limits **RPD** Limit 86 70 - 135 20 n 93 70 - 135 20

Method: 8021 - BTEX - Volatiles by 8021

Lab Sample ID: 7722663-1-BLK

Matrix: SOIL

Analysis Batch: 3152745

Client Sample ID: Method Blank **Prep Type: Total/NA** Prep Batch: 3152745_P

	BLANK	BLANK							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/05/21 16:30	03/05/21 21:06	1
Ethylbenzene	<.002	U	.002		mg/kg		03/05/21 16:30	03/05/21 21:06	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/05/21 16:30	03/05/21 21:06	1
o-Xylene	<.002	U	.002		mg/kg		03/05/21 16:30	03/05/21 21:06	1
Toluene	<.002	U	.002		mg/kg		03/05/21 16:30	03/05/21 21:06	1

BLANK BLANK

Sample Sample

<50

<50

Result Qualifier

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene 104 70 - 130 03/05/21 16:30 03/05/21 21:06

Client: GHD Services Inc. Job ID: 890-239-1 Project/Site: Unocal AHU Federal SDG: 11220756

Method: 8021 - BTEX - Volatiles by 8021 (Continued)

Lab Sample ID: 7722663-1-BKS

Matrix: SOIL

Analysis Batch: 3152745

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

Prep Batch: 3152745_P

	Spike	LCS	LCS				%Rec.	
Analyte A	dded	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	.1	0.0989		mg/kg		99	70 - 130	
Ethylbenzene	.1	0.0932		mg/kg		93	71 - 129	
m,p-Xylenes	.2	0.183		mg/kg		92	70 - 135	
o-Xylene	.1	0.0938		mg/kg		94	71 - 133	
Toluene	.1	0.104		mg/kg		104	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 70 - 130

Lab Sample ID: 7722663-1-BSD

Matrix: SOIL

Analysis Batch: 3152745

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152745_P

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	.1	0.0877		mg/kg		88	70 - 130	12	35
Ethylbenzene	.1	0.0819		mg/kg		82	71 - 129	13	35
m,p-Xylenes	.2	0.160		mg/kg		80	70 - 135	13	35
o-Xylene	.1	0.0833		mg/kg		83	71 - 133	12	35
Toluene	.1	0.0914		mg/kg		91	70 - 130	13	35

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 101 70 - 130

Lab Sample ID: 690433-009 S

Matrix: SOIL

Analysis Batch: 3152745

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 3152745_P

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<.002		.0998	0.139	X	mg/kg		139	70 - 130	
Ethylbenzene	<.002		.0998	0.119		mg/kg		119	71 - 129	
m,p-Xylenes	<.00399		.2	0.231		mg/kg		116	70 - 135	
o-Xylene	<.002		.0998	0.125		mg/kg		125	71 - 133	
Toluene	<.002		.0998	0.131	X	mg/kg		131	70 - 130	

MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene 103

Lab Sample ID: 690433-009 SD

Matrix: SOIL

Analysis Batch: 3152745

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Prep Batch: 3152745 P

7 mining 010 = milotin 0 10=1 10											
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<.002		.0998	0.143	X	mg/kg		143	70 - 130	3	35
Ethylbenzene	<.002		.0998	0.128		mg/kg		128	71 - 129	7	35
m,p-Xylenes	<.00399		.2	0.250		mg/kg		125	70 - 135	8	35
o-Xylene	<.002		.0998	0.133	Χ	mg/kg		133	71 - 133	6	35
Toluene	<.002		.0998	0.139	Χ	mg/kg		139	70 - 130	6	35
	Analyte Benzene Ethylbenzene m,p-Xylenes o-Xylene	Analyte Result Benzene <.002 Ethylbenzene <.002 m,p-Xylenes <.00399 o-Xylene <.002	Analyte Result Penden Qualifier Benzene <.002 Ethylbenzene <.002 m,p-Xylenes <.00399 o-Xylene <.002	Analyte Result Benzene Qualifier Added Added Added Ethylbenzene <.002 .0998 m,p-Xylenes <.00399 .2 o-Xylene <.002 .0998	Analyte Result Benzene < .002	Analyte Result Benzene < 0.002	Analyte Result Benzene < 0.002	Analyte Result Benzene Qualifier Added Added Added Result Service MSD MSD MSD Unit D Benzene <.002 .0998 0.143 X mg/kg Ethylbenzene <.002 .0998 0.128 mg/kg m,p-Xylenes <.00399 .2 0.250 mg/kg o-Xylene <.002 .0998 0.133 X mg/kg	Analyte Result Benzene Qualifier Added Added Added Result Qualifier Qualifier Qualifier MSD MSD WSD MSD Benzene <.002 .0998 0.143 X mg/kg 143 Ethylbenzene <.002 .0998 0.128 mg/kg 128 m,p-Xylenes <.00399 .2 0.250 mg/kg 125 o-Xylene <.002 .0998 0.133 X mg/kg 133	Analyte Result Benzene Qualifier Added Added Added Result Qualifier Qualifier Qualifier Added Qualifier Qualifier Qualifier Qualifier Qualifier Unit Qualifier Qualifier Qualifier Unit Qualifier Qualifier Qualifier Unit Qualifier </th <th>Analyte Result Benzene Qualifier Added Added Added Result Qualifier Qualifier Qualifier Unit Qualifier Qualifier Unit Qualifier Qualifier MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD</th>	Analyte Result Benzene Qualifier Added Added Added Result Qualifier Qualifier Qualifier Unit Qualifier Qualifier Unit Qualifier Qualifier MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD

QC Sample Results

Client: GHD Services Inc.

Project/Site: Unocal AHU Federal

Job ID: 890-239-1
SDG: 11220756

Method: 8021 - BTEX - Volatiles by 8021 (Continued)

Lab Sample ID: 690433-009 SD

Matrix: SOIL

Analysis Batch: 3152745

MSD MSD

Surrogate%RecoveryQualifierLimits4-Bromofluorobenzene10570 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 3152745_P 4

5

7

ŏ

10

Client: GHD Services Inc.

Project/Site: Unocal AHU Federal

Job ID: 890-239-1
SDG: 11220756

Subcontract

Analysis Batch: 3152504

B90-239-1	3152504_P 3152504_P 3152504_P 3152504_P 3152504_P 3152504_P
890-239-2	3152504_P 3152504_P 3152504_P 3152504_P 3152504_P
B90-239-3 TP2-S Total/NA Solid B015B - Mod TPH NM	3152504_P 3152504_P 3152504_P 3152504_P
TPH NM 390-239-4 TP2-2 Total/NA Solid 8015B - Mod TPH NM 390-239-5 TP2-4 Total/NA Solid 8015B - Mod TPH NM 390-239-6 TP3-S Total/NA Solid 8015B - Mod TPH NM 390-239-7 TP3-2 Total/NA Solid 8015B - Mod TPH NM 390-239-8 TP3-4 Total/NA Solid 8015B - Mod TPH NM 390-239-9 TP4-S Total/NA Solid 8015B - Mod TPH NM 390-239-10 TP4-2 Total/NA Solid 8015B - Mod TPH NM 390-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM 390-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 390-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TP6-S Total/NA Solid 8015B - Mod TPH NM	3152504_P 3152504_P 3152504_P 3152504_P
Sepo-239-4 TP2-2 Total/NA Solid Solid Solid TPH NM	3152504_P 3152504_P 3152504_P
TPH NM 390-239-5 TP2-4 Total/NA Solid 8015B - Mod TPH NM 390-239-6 TP3-S Total/NA Solid 8015B - Mod TPH NM 390-239-7 TPH NM 390-239-7 TP3-2 Total/NA Solid 8015B - Mod TPH NM 8015B - Mod TPH NM 800-239-8 TP3-4 Total/NA Solid 8015B - Mod TPH NM 800-239-9 TP4-S Total/NA Solid 8015B - Mod TPH NM 800-239-9 TP4-S Total/NA Solid 8015B - Mod TPH NM 800-239-10 TP4-2 Total/NA Solid 8015B - Mod TPH NM 800-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM 800-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 800-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 800-239-14 TPH NM 8015B - Mod TPH NM 800-239-14 TPH NM 8015B - Mod TPH NM 8015B - Mod TPH NM 8015B - Mod TPH NM 800-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM	3152504_P 3152504_P 3152504_P
Total/NA Solid S015B - Mod TPH NM S00-239-6 TP3-S Total/NA Solid S015B - Mod TPH NM S00-239-6 TP3-S Total/NA Solid S015B - Mod TPH NM S00-239-7 TP3-2 Total/NA Solid S015B - Mod TPH NM S00-239-8 TP3-4 Total/NA Solid S015B - Mod TPH NM S00-239-9 TP4-S Total/NA Solid S015B - Mod TPH NM S00-239-10 TP4-2 Total/NA Solid S015B - Mod TPH NM S00-239-11 TP5-S Total/NA Solid S015B - Mod TPH NM S00-239-12 TP5-2 Total/NA Solid S015B - Mod TPH NM S00-239-13 TP6-S Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid S015B - Mod TPH NM TPH NM S015B - Mod TPH NM TPH NM	3152504_P
TPH NM 890-239-6 TP3-S Total/NA Solid 8015B - Mod TPH NM 890-239-7 TP3-2 Total/NA Solid 8015B - Mod TPH NM 890-239-8 TP3-4 Total/NA Solid 8015B - Mod TPH NM 890-239-9 TP4-S Total/NA Solid 8015B - Mod TPH NM 890-239-10 TP4-2 Total/NA Solid 8015B - Mod TPH NM 890-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM 890-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 890-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 890-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 890-239-14 TP6-S Total/NA Solid 8015B - Mod TPH NM 890-239-14 TP6-S Total/NA Solid 8015B - Mod TPH NM	3152504_P
TPH NM 390-239-7 TP3-2 Total/NA Solid 8015B - Mod TPH NM 390-239-8 TP3-4 Total/NA Solid 8015B - Mod TPH NM 390-239-9 TP4-S Total/NA Solid 8015B - Mod TPH NM S00-239-10 TP4-2 Total/NA Solid 8015B - Mod TPH NM S00-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM S00-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM S00-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM S00-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM S00-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM S00-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM S00-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM	3152504_P
TP3-2 Total/NA Solid 8015B - Mod TPH NM Solid S	
TPH NM 890-239-8 TP3-4 Total/NA Solid 8015B - Mod TPH NM 890-239-9 TP4-S Total/NA Solid 8015B - Mod TPH NM 890-239-10 TP4-2 Total/NA Solid 8015B - Mod TPH NM 890-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM 890-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 890-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 890-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM 890-239-14 TPH NM 890-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM	
B90-239-8	
TPH NM 390-239-9 TP4-S Total/NA Solid 8015B - Mod TPH NM 390-239-10 TP4-2 Total/NA Solid 8015B - Mod TPH NM 390-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM 390-239-12 TPH NM 390-239-13 TP5-2 Total/NA Solid 8015B - Mod TPH NM 390-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TPH NM 390-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM 390-239-14 TPH NM	
TP4-S Total/NA Solid 8015B - Mod TPH NM Solid 8015B - Mod TPH NM Solid Solid Solid Solid Solid Solid Solid TPH NM Solid Solid Solid Solid TPH NM Solid Solid Solid Solid Solid Solid TPH NM Solid	3152504 P
TPH NM 390-239-10 TP4-2 Total/NA Solid 8015B - Mod TPH NM 390-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM 390-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 390-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM TPH NM TPH NM	_
TPH NM 390-239-10 TP4-2 Total/NA Solid 8015B - Mod TPH NM 390-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM 390-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 390-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM TPH NM TPH NM TPH NM	3152504 P
TP4-2 Total/NA Solid 8015B - Mod TPH NM Solid Solid Solid Solid TPH NM Solid Solid Solid Solid Solid Solid TPH NM Solid Sol	_
TPH NM 390-239-11 TP5-S Total/NA Solid 8015B - Mod TPH NM 390-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 390-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TPH NM TPH NM TPH NM TPH NM TPH NM	3152504 P
TP5-S Total/NA Solid 8015B - Mod TPH NM TPH NM Solid 8015B - Mod TPH NM TP6-2 Total/NA Solid 8015B - Mod TPH NM	0.0200
TPH NM 390-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 390-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 390-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM TPH NM	3152504 P
990-239-12 TP5-2 Total/NA Solid 8015B - Mod TPH NM 990-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 990-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM	0102004_1
TPH NM 190-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 190-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM 190-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM	3152504 P
990-239-13 TP6-S Total/NA Solid 8015B - Mod TPH NM 990-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM	3132304_1
TPH NM 890-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM	3152504 P
890-239-14 TP6-2 Total/NA Solid 8015B - Mod TPH NM	3132304_1
TPH NM	3152504_P
	3132304_F
	2152504 D
	3152504_P
TPH NM 390-239-16 TP7-2 Total/NA Solid 8015B - Mod	2452504 D
190-239-10 1P7-2 Total/NA Solid 6013B - Midd	3152504_P
890-239-17 TP8-S Total/NA Solid 8015B - Mod	24E2E04 D
	3152504_P
TPH NM 390-239-18 TP8-2 Total/NA Solid 8015B - Mod	2152504 D
· · · · · · · · · · · · · · · · · · ·	3152504_P
TPH NM 7722496-1-BLK Method Blank Total/NA SOIL 8015B - Mod	2452504 D
	3152504_P
TPH NM	0450504 D
7722496-1-BKS Lab Control Sample Total/NA SOIL 8015B - Mod	3152504_P
TPH NM	
7722496-1-BSD Lab Control Sample Dup Total/NA SOIL 8015B - Mod	
TPH NM	3152504_P
S90144-002 S Matrix Spike Total/NA SOIL 8015B - Mod	
TPH NM	_
690144-002 SD Matrix Spike Duplicate Total/NA SOIL 8015B - Mod	3152504_P
TPH NM	3152504_P 3152504_P 3152504_P

Analysis Batch: 3152649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-239-1	TP1-S	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-2	TP1-2	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-3	TP2-S	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-4	TP2-2	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-5	TP2-4	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-6	TP3-S	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-7	TP3-2	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-8	TP3-4	Total/NA	Solid	300.0 - Chloride	3152649_P

Eurofins Carlsbad

2

_

8

4 0

11

12

ino Ganobac

Client: GHD Services Inc.

Project/Site: Unocal AHU Federal

Job ID: 890-239-1
SDG: 11220756

Subcontract (Continued)

Analysis Batch: 3152649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-239-9	TP4-S	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-10	TP4-2	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-11	TP5-S	Total/NA	Solid	300.0 - Chloride	3152649_P
890-239-12	TP5-2	Total/NA	Solid	300.0 - Chloride	3152649_P
7722548-1-BLK	Method Blank	Total/NA	SOIL	300.0 - Chloride	3152649_P
7722548-1-BKS	Lab Control Sample	Total/NA	SOIL	300.0 - Chloride	3152649_P
7722548-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	300.0 - Chloride	3152649_P
690144-003 S	Matrix Spike	Total/NA	SOIL	300.0 - Chloride	3152649_P
690144-003 SD	Matrix Spike Duplicate	Total/NA	SOIL	300.0 - Chloride	3152649_P
690147-004 S	Matrix Spike	Total/NA	SOIL	300.0 - Chloride	3152649_P
690147-004 SD	Matrix Spike Duplicate	Total/NA	SOIL	300.0 - Chloride	3152649_P

Analysis Batch: 3152651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-239-13	TP6-S	Total/NA	Solid	300.0 - Chloride	3152651_P
890-239-14	TP6-2	Total/NA	Solid	300.0 - Chloride	3152651_P
890-239-15	TP7-S	Total/NA	Solid	300.0 - Chloride	3152651_P
890-239-16	TP7-2	Total/NA	Solid	300.0 - Chloride	3152651_P
890-239-17	TP8-S	Total/NA	Solid	300.0 - Chloride	3152651_P
890-239-18	TP8-2	Total/NA	Solid	300.0 - Chloride	3152651_P
7722549-1-BLK	Method Blank	Total/NA	SOIL	300.0 - Chloride	3152651_P
7722549-1-BKS	Lab Control Sample	Total/NA	SOIL	300.0 - Chloride	3152651_P
7722549-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	300.0 - Chloride	3152651_P
690144-013 S	Matrix Spike	Total/NA	SOIL	300.0 - Chloride	3152651_P
690144-013 SD	Matrix Spike Duplicate	Total/NA	SOIL	300.0 - Chloride	3152651_P
690333-005 S	Matrix Spike	Total/NA	SOIL	300.0 - Chloride	3152651_P
690333-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	300.0 - Chloride	3152651_P

Analysis Batch: 3152745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-239-1	TP1-S	Total/NA	Solid	8021 - BTEX	3152745_P
890-239-2	TP1-2	Total/NA	Solid	8021 - BTEX	3152745_P
890-239-3	TP2-S	Total/NA	Solid	8021 - BTEX	3152745_P
890-239-4	TP2-2	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-5	TP2-4	Total/NA	Solid	8021 - BTEX	3152745_P
890-239-6	TP3-S	Total/NA	Solid	8021 - BTEX	3152745_P
890-239-7	TP3-2	Total/NA	Solid	8021 - BTEX	3152745_P
890-239-8	TP3-4	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-9	TP4-S	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-10	TP4-2	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-11	TP5-S	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-12	TP5-2	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-13	TP6-S	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-14	TP6-2	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-15	TP7-S	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-16	TP7-2	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-17	TP8-S	Total/NA	Solid	8021 - BTEX	3152745_F
890-239-18	TP8-2	Total/NA	Solid	8021 - BTEX	3152745_F
7722663-1-BLK	Method Blank	Total/NA	SOIL	8021 - BTEX	3152745_F
7722663-1-BKS	Lab Control Sample	Total/NA	SOIL	8021 - BTEX	3152745_F
7722663-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8021 - BTEX	3152745 P

Eurofins Carlsbad

2

3

4

6

8

9

-

Job ID: 890-239-1 Client: GHD Services Inc. Project/Site: Unocal AHU Federal SDG: 11220756

Subcontract (Continued)

Analysis Batch: 3152745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
690433-009 S	Matrix Spike	Total/NA	SOIL	8021 - BTEX	3152745_P
690433-009 SD	Matrix Spike Duplicate	Total/NA	SOIL	8021 - BTEX	3152745_P

Prep Batch: 3152504_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-239-1	TP1-S	Total/NA	Solid	SW8015P	
890-239-2	TP1-2	Total/NA	Solid	SW8015P	
890-239-3	TP2-S	Total/NA	Solid	SW8015P	
890-239-4	TP2-2	Total/NA	Solid	SW8015P	
890-239-5	TP2-4	Total/NA	Solid	SW8015P	
890-239-6	TP3-S	Total/NA	Solid	SW8015P	
890-239-7	TP3-2	Total/NA	Solid	SW8015P	
890-239-8	TP3-4	Total/NA	Solid	SW8015P	
890-239-9	TP4-S	Total/NA	Solid	SW8015P	
890-239-10	TP4-2	Total/NA	Solid	SW8015P	
890-239-11	TP5-S	Total/NA	Solid	SW8015P	
890-239-12	TP5-2	Total/NA	Solid	SW8015P	
890-239-13	TP6-S	Total/NA	Solid	SW8015P	
890-239-14	TP6-2	Total/NA	Solid	SW8015P	
890-239-15	TP7-S	Total/NA	Solid	SW8015P	
890-239-16	TP7-2	Total/NA	Solid	SW8015P	
890-239-17	TP8-S	Total/NA	Solid	SW8015P	
890-239-18	TP8-2	Total/NA	Solid	SW8015P	
7722496-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722496-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722496-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690144-002 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690144-002 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3152649_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-239-1	TP1-S	Total/NA	Solid	E300P	
890-239-2	TP1-2	Total/NA	Solid	E300P	
890-239-3	TP2-S	Total/NA	Solid	E300P	
890-239-4	TP2-2	Total/NA	Solid	E300P	
890-239-5	TP2-4	Total/NA	Solid	E300P	
890-239-6	TP3-S	Total/NA	Solid	E300P	
890-239-7	TP3-2	Total/NA	Solid	E300P	
890-239-8	TP3-4	Total/NA	Solid	E300P	
890-239-9	TP4-S	Total/NA	Solid	E300P	
890-239-10	TP4-2	Total/NA	Solid	E300P	
890-239-11	TP5-S	Total/NA	Solid	E300P	
890-239-12	TP5-2	Total/NA	Solid	E300P	
7722548-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722548-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	

Client: GHD Services Inc.

Project/Site: Unocal AHU Federal

Job ID: 890-239-1
SDG: 11220756

Subcontract (Continued)

Prep Batch: 3152649_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7722548-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT	
				PREP***	
690144-003 S	Matrix Spike	Total/NA	SOIL	***DEFAULT	
				PREP***	
690144-003 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT	
				PREP***	
690147-004 S	Matrix Spike	Total/NA	SOIL	***DEFAULT	
				PREP***	
690147-004 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT	
				PREP***	

Prep Batch: 3152651_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-239-13	TP6-S	Total/NA	Solid	E300P	
890-239-14	TP6-2	Total/NA	Solid	E300P	
890-239-15	TP7-S	Total/NA	Solid	E300P	
890-239-16	TP7-2	Total/NA	Solid	E300P	
890-239-17	TP8-S	Total/NA	Solid	E300P	
890-239-18	TP8-2	Total/NA	Solid	E300P	
7722549-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722549-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722549-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690144-013 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690144-013 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	
690333-005 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690333-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3152745_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-239-1	TP1-S	Total/NA	Solid	SW5035A	
890-239-2	TP1-2	Total/NA	Solid	SW5035A	
890-239-3	TP2-S	Total/NA	Solid	SW5035A	
890-239-4	TP2-2	Total/NA	Solid	SW5035A	
890-239-5	TP2-4	Total/NA	Solid	SW5035A	
890-239-6	TP3-S	Total/NA	Solid	SW5035A	
890-239-7	TP3-2	Total/NA	Solid	SW5035A	
890-239-8	TP3-4	Total/NA	Solid	SW5035A	
890-239-9	TP4-S	Total/NA	Solid	SW5035A	
890-239-10	TP4-2	Total/NA	Solid	SW5035A	
890-239-11	TP5-S	Total/NA	Solid	SW5035A	
890-239-12	TP5-2	Total/NA	Solid	SW5035A	
890-239-13	TP6-S	Total/NA	Solid	SW5035A	
890-239-14	TP6-2	Total/NA	Solid	SW5035A	
890-239-15	TP7-S	Total/NA	Solid	SW5035A	
890-239-16	TP7-2	Total/NA	Solid	SW5035A	
890-239-17	TP8-S	Total/NA	Solid	SW5035A	
890-239-18	TP8-2	Total/NA	Solid	SW5035A	

Eurofins Carlsbad

3

4

6

8

9

11

Job ID: 890-239-1 Client: GHD Services Inc. Project/Site: Unocal AHU Federal SDG: 11220756

Subcontract (Continued)

Prep Batch: 3152745_P (Continued)

Lab	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7722	2663-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7722	2663-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7722	2663-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
6904	133-009 S	Matrix Spike	Total/NA	SOIL	SW5035A	
6904	133-009 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Accreditation/Certification Summary

Client: GHD Services Inc.

Project/Site: Unocal AHU Federal

SDG: 11220756

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

1	Authority	Program	Identification Number	Expiration Date
Ī	exas	NELAP	T104704400-20-21	06-30-21

e 0 / 0 J 98

Eurofins Carlsbad

3/10/2021

Sample Summary

Client: GHD Services Inc.

Project/Site: Unocal AHU Federal

Job ID: 890-239-1

SDG: 11220756

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-239-1	TP1-S	Solid	03/02/21 08:15	03/02/21 13:34
390-239-2	TP1-2	Solid	03/02/21 08:20	03/02/21 13:34
890-239-3	TP2-S	Solid	03/02/21 08:25	03/02/21 13:34
390-239-4	TP2-2	Solid	03/02/21 08:30	03/02/21 13:34
90-239-5	TP2-4	Solid	03/02/21 08:40	03/02/21 13:34
90-239-6	TP3-S	Solid	03/02/21 08:45	03/02/21 13:34
90-239-7	TP3-2	Solid	03/02/21 08:50	03/02/21 13:34
90-239-8	TP3-4	Solid	03/02/21 08:55	03/02/21 13:34
90-239-9	TP4-S	Solid	03/02/21 09:20	03/02/21 13:34
90-239-10	TP4-2	Solid	03/02/21 09:25	03/02/21 13:34
0-239-11	TP5-S	Solid	03/02/21 09:30	03/02/21 13:34
0-239-12	TP5-2	Solid	03/02/21 09:35	03/02/21 13:34
90-239-13	TP6-S	Solid	03/02/21 09:50	03/02/21 13:34
390-239-14	TP6-2	Solid	03/02/21 09:55	03/02/21 13:34
390-239-15	TP7-S	Solid	03/02/21 10:10	03/02/21 13:34
390-239-16	TP7-2	Solid	03/02/21 10:15	03/02/21 13:34
90-239-17	TP8-S	Solid	03/02/21 10:30	03/02/21 13:34
90-239-18	TP8-2	Solid	03/02/21 10:35	03/02/21 13:34

Eurofins Carlsbad

Released to Imaging: 7/27/2023 2:02:37 PM

Relinquished by:

Date

Time:

Received By:

Custody Seal #

Preserved where applicable

On Ice

13.2/3.C

under a fully executed client contract

Thermo. Corr. Factor

Released to Imaging:

Relinquished By:

Date Time:

Received By:

Relinquished by:

Nolice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratones and its affiliates, subconfractors and assigns XENCO's standard terms and conditions of service unless previously negotiated

Page 69 of 98

Stafford, Texas (281-240-4200)

Setting the Standard since 1990

ABORATORIES CHAIN OF CUSTODY Norcross, Georgia (770-449-8800) Odessa, Texas (432-563-1800) Lakeland, Florida (863-646-8526)

3/10/2021

Company Name / Branch: GHD/Midland Company Address: 2135 S . Loop 250 West Midland TX Š Samplers's Name Zach Comino Email: becky haskell@ghd.com glenn.quinney@ghd.com 6 roject Contact: Becky Haskell / Glenn Quinney Relinquished by Sampler: Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300) TP3-S TP2-2 TP1-S 3 Day EMERGENCY 2 Day EMERGENCY Same Day TAT TP4-2 TP4-S TP3-4 TP3-2 TP2-4 TP2-S TP1-2 TAT Starts Day received by Lab, if received by 5:00 pm Next Day EMERGENCY Client / Reporting Information Turnaround Time (Business days) Field ID / Point of Collection Contract TAT 7 Day TAT X 5 Day TAT SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Phone No: (432)250-7917
Zach comino@ghd.com larson@ghd.com Date Time: 1 Date Time: Sample Depth PO Number: NA Invoice To: Project Location: Project Name/Number: Collection 3/2/2021 3/2/2021 3/2/2021 Date Eddy County, New Mexico EOG / James Kennedy Received By: Report MDLs and J values. Level 3 (CLP Forms) Level III Std QC+ Forms Time TRRP Checklist Level II Std QC 9.20 8:55 8:50 8 45 8 40 8:30 8:25 8:20 yed By: Project Information Unocal AHU Federal / 11220756 Matrix 1 Data Deliverable Information www.xenco.com # 약 HCI NaOH/Zn TRRP Level IV HNO3 UST / RG -411 Level IV (Full Data Pkg /raw data) H2SO4 NaOH NaHSO4 меон × × × × TPH By 8015 Mod (GRO, DRO & MRO) \leq BTEX 8021 B × × × × Chloride 600 × × Received By: Xenco Job # 890-239 Chain of Custody No-SSOW / Direct Bill to EO Tampa, Florida (813-620-2000) Field Comments SL = Sludge OW ≃Ocean/Sea Water W = Wipe DW = Drinking Water WW= Waste Water SW = Surface water P = Product S = Soil/Sed/Solid GW =Ground Water O = Oil Matrix Codes Page 31 of 38

Page 70 of 98

Stafford, Texas (281-240-4200) Setting the Standard since 1990

CHAIN OF CUSTODY

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Tampa, Florida (813-620-2000)

Lakeland, Florida (863-646-8526)

3/10/2021

www.xenco.com	Xenco Quote #	Xenco Job#
	, Analytical Information	mation Matrix Codes
Project Information)) —	
Project Name/Number: Unocal AHU Federal / 11220756	MRG	S = Soil/Sed/Solid
Project Location:	0 &	GW =Ground Water DW = Drinking Water
Eddy County, New Mexico	DR	P = Product
Invoice Io: EOG / James Kennedy	RO,	SL = Sludge
_	(G	OW = Ocean/Sea Water
PO Number: NA	lod	0 = 0il
	В	ww= waste water
Collection Number of preserved bottles	801	A = Air
Matrix D # O HCI NaOH/Zn Acctate HNO3 H2SO4	NaOH NaHSO4 MEOH NONE TPH By BTEX 8 Chloride	Field Comments
3/2/2021 9:30 \$ \	× × × ×	33
3/2/2021 9:35 \$ \	× × × ×	of 3
3/2/2021 9:50 \$	× × × ×	32
9:55		ge
10:10		Pa
10.15		
10.30		
10:35	<	
Data Deliverable information		PA
Level II Std QC Level	el IV (Full Data Pkg /raw data)	:37
Level III Std QC+ Forms TRRF	P Level IV	-02:
Level 3 (CLP Forms) UST	7 RG -411	223 2
TRRP Checklist		No SSOW / Direct Bill to EOG
Report MDLs and J values.		7/2
Received By: Received By: Received By: Received By:	quished By: Date Time:	Received By:
	- 1	Received By:
4		able On Ice Cooler Temp. Thermo. Corr. Factor
	_	
	9:50 S 10:10 10:10 10:15 10:15 10:35 Data Deliverable Information Level III Std QC+ Forms Level III Std QC+ Forms TRRP Checklist Report MDLs and J values. SELOW EACH TIME SAMPLES CHANGE POSSESSION. Received By: Received By: Custo Gusto Gu	Data Deliverable Information Data Deliverable Information Data Deliverable Information Level IV (Full Data Pkg /raw data) Std QC TRRP Level IV (CLP Forms) UST / RG -411 Thecklist Relinquished By: Relinquished By: Custody Seal # Preserv

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-239-1

SDG Number: 11220756

Login Number: 239 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Eurofins Carlsbad

1

4

6

8

4.0

11

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-456-1

Laboratory Sample Delivery Group: 11220756 Client Project/Site: Uncial AHU Federal

For:

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

Attn: Becky Haskell

Debbie Simmers

Authorized for release by: 4/1/2021 4:37:30 PM

Debbie Simmons, Project Manager (281)240-4200

debbie.simmons@eurofinset.com

Review your project results through

.....LINKS

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 7/27/2023 2:02:37 PM

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

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

1

2

3

_

6

8

11

14

Client: GHD Services Inc.

Laboratory Job ID: 890-456-1

Project/Site: Uncial AHU Federal

SDG: 11220756

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	15
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	22

3

А

5

7

9

10

12

13

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-456-1 Project/Site: Uncial AHU Federal SDG: 11220756

Qualifiers

GC VOA

Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance limits, high biased.

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

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

В Compound was found in the blank and sample.

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

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid Colony Forming Unit **CFU** Contains No Free Liquid **CNF**

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin)

MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

Too Numerous To Count **TNTC**

Case Narrative

Client: GHD Services Inc.

Project/Site: Uncial AHU Federal

SDG: 11220756

Job ID: 890-456-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-456-1

Receipt

The samples were received on 3/30/2021 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

Receipt Exceptions

The following samples analyzed for method BTEX8021 were received and analyzed from an unpreserved bulk soil jar: BH-1 (890-456-1), SW-1 (890-456-2), BH-2 (890-456-3), SW-2 (890-456-4) and BH-3 (890-456-5).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

-0

2

3

E

_

8

9

IU

12

13

Client: GHD Services Inc.

Job ID: 890-456-1 SDG: 11220756

Project/Site: Uncial AHU Federal

Client Sample ID: BH-1 Lab Sample ID: 890-456-1 Date Collected: 03/29/21 10:00 Date Received: 03/30/21 11:55

Matrix: Solid

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		03/31/21 13:46	04/01/21 02:12	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		03/31/21 13:46	04/01/21 02:12	1
Ethylbenzene	< 0.000563	U	0.00199	0.000563	mg/Kg		03/31/21 13:46	04/01/21 02:12	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		03/31/21 13:46	04/01/21 02:12	1
o-Xylene	< 0.000343	U *+	0.00199	0.000343	mg/Kg		03/31/21 13:46	04/01/21 02:12	1
Xylenes, Total	<0.000996	U	0.00398	0.000996	mg/Kg		03/31/21 13:46	04/01/21 02:12	1
Total BTEX	<0.000996	U	0.00199	0.000996	mg/Kg		03/31/21 13:46	04/01/21 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				03/31/21 13:46	04/01/21 02:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/31/21 13:46	04/01/21 02:12	1

Method: 8015B NM - Diesel Ra	ange Organi	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:10	1
(GRO)-C6-C10									
Total TPH	<15.0	U	50.0	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:10	1
Diesel Range Organics (Over	<15.0	U	50.0	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:10	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/31/21 14:08	04/01/21 01:10	1

101

23.5 JB

welliou. 300.0 - Allions, ion C	momatography - Solubi	U					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.3	4.95	0.850 mg/Kg			03/31/21 22:38	1

70 - 130

Lab Sample ID: 890-456-2 Client Sample ID: SW-1 Date Collected: 03/29/21 10:30

o-Terphenyl

(GRO)-C6-C10 **Total TPH**

Released to Imaging: 7/27/2023 2:02:37 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		03/31/21 13:46	04/01/21 02:33	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		03/31/21 13:46	04/01/21 02:33	1
Ethylbenzene	< 0.000564	U	0.00200	0.000564	mg/Kg		03/31/21 13:46	04/01/21 02:33	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		03/31/21 13:46	04/01/21 02:33	1
o-Xylene	0.000353	J *+	0.00200	0.000343	mg/Kg		03/31/21 13:46	04/01/21 02:33	1
Xylenes, Total	<0.000998	U	0.00399	0.000998	mg/Kg		03/31/21 13:46	04/01/21 02:33	1
Total BTEX	<0.000998	U	0.00200	0.000998	mg/Kg		03/31/21 13:46	04/01/21 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				03/31/21 13:46	04/01/21 02:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/31/21 13:46	04/01/21 02:33	1
Method: 8015B NM - Diese	l Range Organi	ics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

03/31/21 14:08 04/01/21 01:31

50.1

15.0 mg/Kg

Matrix: Solid

03/31/21 14:08 04/01/21 01:10

Date Collected: 03/29/21 10:30

Date Received: 03/30/21 11:55

Client: GHD Services Inc.

Job ID: 890-456-1

SDG: 11220756

Project/Site: Uncial AHU Federal **Client Sample ID: SW-1**

Lab Sample ID: 890-456-2

Matrix: Solid

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

Method, ou lab MM - Diesel IV	ange Organ	ics (Dito)		ueu,					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<15.0	U	50.1	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:31	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/31/21 14:08	04/01/21 01:31	1
o-Terphenyl	103		70 - 130				03/31/21 14:08	04/01/21 01:31	1

Method: 300.0 - Anions, Ion C	hromatogra	phy - Solul	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		5.02	0.862	mg/Kg			03/31/21 22:44	1

Lab Sample ID: 890-456-3 **Client Sample ID: BH-2**

Date Collected: 03/29/21 11:00 **Matrix: Solid**

Date Received: 03/30/21 11:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		03/31/21 13:46	04/01/21 02:53	1
Toluene	< 0.000455	U	0.00200	0.000455	mg/Kg		03/31/21 13:46	04/01/21 02:53	1
Ethylbenzene	< 0.000564	U	0.00200	0.000564	mg/Kg		03/31/21 13:46	04/01/21 02:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		03/31/21 13:46	04/01/21 02:53	1
o-Xylene	< 0.000343	U *+	0.00200	0.000343	mg/Kg		03/31/21 13:46	04/01/21 02:53	1
Xylenes, Total	<0.000998	U	0.00399	0.000998	mg/Kg		03/31/21 13:46	04/01/21 02:53	1
Total BTEX	<0.000998	U	0.00200	0.000998	mg/Kg		03/31/21 13:46	04/01/21 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyze	d Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/31/21 13:46 04/01/21 03	2:53 1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/31/21 13:46 04/01/21 0	£:53 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.0	JB	50.0	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:52	1
Total TPH	22.0	JB	50.0	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:52	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/31/21 14:08	04/01/21 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/31/21 14:08	04/01/21 01:52	1
o-Terphenyl	104		70 - 130	03/31/21 14:08	04/01/21 01:52	1

Method: 300.0 - Anions, I	on Chromatography - Soluble
---------------------------	-----------------------------

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.6	5.04	0.865 mg/Kg			04/01/21 01:15	1

Released to Imaging: 7/27/2023 2:02:37 PM

Job ID: 890-456-1

Client: GHD Services Inc. Project/Site: Uncial AHU Federal SDG: 11220756

Client Sample ID: SW-2 Lab Sample ID: 890-456-4 Date Collected: 03/29/21 11:30 **Matrix: Solid**

Date Received: 03/30/21 11:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/31/21 13:46	04/01/21 03:13	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		03/31/21 13:46	04/01/21 03:13	1
Ethylbenzene	< 0.000565	U	0.00200	0.000565	mg/Kg		03/31/21 13:46	04/01/21 03:13	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/31/21 13:46	04/01/21 03:13	1
o-Xylene	< 0.000344	U *+	0.00200	0.000344	mg/Kg		03/31/21 13:46	04/01/21 03:13	1
Xylenes, Total	<0.00100	U	0.00400	0.00100	mg/Kg		03/31/21 13:46	04/01/21 03:13	1
Total BTEX	<0.00100	U	0.00200	0.00100	mg/Kg		03/31/21 13:46	04/01/21 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/31/21 13:46	04/01/21 03:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/31/21 13:46	04/01/21 03:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		03/31/21 14:08	04/01/21 02:14	1
Total TPH	<15.0	U	49.9	15.0	mg/Kg		03/31/21 14:08	04/01/21 02:14	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		03/31/21 14:08	04/01/21 02:14	1
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/31/21 14:08	04/01/21 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/31/21 14:08	04/01/21 02:14	1
o-Terphenyl	87		70 - 130				03/31/21 14:08	04/01/21 02:14	1

Method: 300.0 - Anions, Ion C	hromatography - Solu	ble						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132	5.04	0.865	mg/Kg			04/01/21 01:20	1

Lab Sample ID: 890-456-5 **Client Sample ID: BH-3** Date Collected: 03/29/21 11:45 **Matrix: Solid** Date Received: 03/30/21 11:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		03/31/21 13:46	04/01/21 03:34	1
Toluene	< 0.000452	U	0.00198	0.000452	mg/Kg		03/31/21 13:46	04/01/21 03:34	1
Ethylbenzene	< 0.000561	U	0.00198	0.000561	mg/Kg		03/31/21 13:46	04/01/21 03:34	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		03/31/21 13:46	04/01/21 03:34	1
o-Xylene	0.000366	J *+	0.00198	0.000341	mg/Kg		03/31/21 13:46	04/01/21 03:34	1
Xylenes, Total	<0.000992	U	0.00397	0.000992	mg/Kg		03/31/21 13:46	04/01/21 03:34	1
Total BTEX	<0.000992	U	0.00198	0.000992	mg/Kg		03/31/21 13:46	04/01/21 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				03/31/21 13:46	04/01/21 03:34	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/31/21 13:46	04/01/21 03:34	1

Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac <15.0 U 15.0 mg/Kg Gasoline Range Organics 49.9 (GRO)-C6-C10 Total TPH <15.0 U 49.9 15.0 mg/Kg 03/31/21 14:08 04/01/21 02:35

Date Received: 03/30/21 11:55

o-Terphenyl

Client Sample Results

Client: GHD Services Inc. Job ID: 890-456-1 Project/Site: Uncial AHU Federal SDG: 11220756

Client Sample ID: BH-3 Date Collected: 03/29/21 11:45

Lab Sample ID: 890-456-5

03/31/21 14:08 04/01/21 02:35

Matrix: Solid

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

104

н	Method. 00 lob Min - Diesel M	ange Organ	ics (Dito)	(CC) (Contini	ucuj					
1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		03/31/21 14:08	04/01/21 02:35	1
	Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/31/21 14:08	04/01/21 02:35	1
	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	1-Chlorooctane	96		70 - 130				03/31/21 14:08	04/01/21 02:35	1

Method: 300.0 - Anions, Ion C	hromatography - Solub	le						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	240	4.97	0.853 ma/Ka			04/01/21 01:26		

70 - 130

Surrogate Summary

Client: GHD Services Inc.

Project/Site: Uncial AHU Federal

SDG: 11220756

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-456-1	BH-1	120	103	
890-456-2	SW-1	117	103	
890-456-3	BH-2	107	97	
890-456-4	SW-2	113	100	
890-456-5	BH-3	114	100	
LCS 880-1110/1-A	Lab Control Sample	118	111	
LCSD 880-1110/2-A	Lab Control Sample Dup	116	109	
MB 880-1097/5-A	Method Blank	100	100	
MB 880-1110/5-A	Method Blank	99	99	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent	Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-456-1	BH-1	90	101	
890-456-2	SW-1	100	103	
890-456-3	BH-2	98	104	
890-456-4	SW-2	92	87	
890-456-5	BH-3	96	104	
LCS 880-1113/2-A	Lab Control Sample	105	84	
LCSD 880-1113/3-A	Lab Control Sample Dup	100	106	
MB 880-1113/1-A	Method Blank	78	95	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: GHD Services Inc. Job ID: 890-456-1 Project/Site: Uncial AHU Federal SDG: 11220756

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1097/5-A **Client Sample ID: Method Blank**

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 1099 Prep Batch: 1097 MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/31/21 10:40	03/31/21 14:19	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		03/31/21 10:40	03/31/21 14:19	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/31/21 10:40	03/31/21 14:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/31/21 10:40	03/31/21 14:19	1
o-Xylene	< 0.000344	U	0.00200	0.000344	mg/Kg		03/31/21 10:40	03/31/21 14:19	1
Xylenes, Total	<0.00100	U	0.00400	0.00100	mg/Kg		03/31/21 10:40	03/31/21 14:19	1
Total BTEX	<0.00100	U	0.00200	0.00100	mg/Kg		03/31/21 10:40	03/31/21 14:19	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/31/21 10:40	03/31/21 14:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/31/21 10:40	03/31/21 14:19	1

Lab Sample ID: MB 880-1110/5-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA**

Prep Batch: 1110 **Analysis Batch: 1099**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/31/21 13:46	04/01/21 01:10	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/31/21 13:46	04/01/21 01:10	1
Ethylbenzene	< 0.000565	U	0.00200	0.000565	mg/Kg		03/31/21 13:46	04/01/21 01:10	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/31/21 13:46	04/01/21 01:10	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/31/21 13:46	04/01/21 01:10	1
Xylenes, Total	<0.00100	U	0.00400	0.00100	mg/Kg		03/31/21 13:46	04/01/21 01:10	1
Total BTEX	<0.00100	U	0.00200	0.00100	mg/Kg		03/31/21 13:46	04/01/21 01:10	1

		MB	MB				
	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	99		70 - 130	03/31/21 13:46	04/01/21 01:10	1
Į	1,4-Difluorobenzene (Surr)	99		70 - 130	03/31/21 13:46	04/01/21 01:10	1

Lab Sample ID: LCS 880-1110/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 1099

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1249		mg/Kg		125	70 - 130	
Toluene	0.100	0.1114		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1140		mg/Kg		114	70 - 130	
m-Xylene & p-Xylene	0.200	0.2290		mg/Kg		114	70 - 130	
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Eurofins Xenco, Carlsbad

Prep Batch: 1110

Client: GHD Services Inc. Job ID: 890-456-1 Project/Site: Uncial AHU Federal SDG: 11220756

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

Lab Sample ID: LCSD 880-1110/2-A

Matrix: Solid

Analysis Batch: 1099

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Client Sample	ID:	Lab	Cont	rol	Sample	Dup
			_	_		

Prep Type: Total/NA

			Prep Batch: 1110						
Spike	LCSD LCSD				%Rec.		RPD		
Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
0.100	0.1304	mg/Kg		130	70 - 130	4	35		
0.100	0.1168	mg/Kg		117	70 - 130	5	35		
0.100	0.1191	mg/Kg		119	70 - 130	4	35		

0.200 0.2383 119 70 - 130 4 mg/Kg 0.100 132 0.1315 *+ mg/Kg 70 - 130

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

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

Lab Sample ID: MB 880-1113/1-A

Matrix: Solid

Analysis Batch: 1092

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 1113

MR MR

	1410								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.80	J	50.0	15.0	mg/Kg		03/31/21 14:08	03/31/21 22:42	1
Total TPH	18.80	J	50.0	15.0	mg/Kg		03/31/21 14:08	03/31/21 22:42	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/31/21 14:08	03/31/21 22:42	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/31/21 14:08	03/31/21 22:42	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	03/31/21 14:08	03/31/21 22:42	1
o-Terphenyl	95		70 - 130	03/31/21 14:08	03/31/21 22:42	1

Lab Sample ID: LCS 880-1113/2-A

Matrix: Solid

Analysis Batch: 1092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1113

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1056		mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	842.4		mg/Kg		84	70 - 130	
040,000)								

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-1113/3-A

Matrix: Solid

Analysis Batch: 1092

Client Sample ID: Lab Control Sample Dup

%Rec

89

Prep Type: Total/NA Prep Batch: 1113

%Rec. **RPD** Limits **RPD** Limit

Gasoline Range Organics 1000 (GRO)-C6-C10

Analyte

Eurofins Xenco, Carlsbad

70 - 130

LCSD LCSD

890.3

Result Qualifier

Unit

mg/Kg

Spike

Added

35

QC Sample Results

Client: GHD Services Inc. Job ID: 890-456-1 Project/Site: Uncial AHU Federal SDG: 11220756

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

Lab Sample ID: LCSD 880-1113/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA **Matrix: Solid Analysis Batch: 1092** Prep Batch: 1113

LCSD LCSD Spike **RPD** %Rec. Added Result Qualifier Unit %Rec Limits RPD Limit Diesel Range Organics (Over 1000 982.5 mg/Kg 98 70 - 130 15 20

C10-C28)

LCSD LCSD Surrogate Qualifier Limits %Recovery 1-Chlorooctane 100 70 - 130 o-Terphenyl 106 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1118/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1132

MB MB

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared Chloride <0.858 U 5.00 0.858 mg/Kg 03/31/21 19:51

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-1118/2-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1132

LCS LCS Spike %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Chloride 250 270.7 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-1118/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1132

RPD Spike LCSD LCSD %Rec. Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 270.5 108 mg/Kg 90 - 110

Eurofins Xenco, Carlsbad

Released to Imaging: 7/27/2023 2:02:37 PM

QC Association Summary

Client: GHD Services Inc.

Project/Site: Uncial AHU Federal

SDG: 11220756

GC VOA

Prep Batch: 1097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1097/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-456-1	BH-1	Total/NA	Solid	8021B	1110
890-456-2	SW-1	Total/NA	Solid	8021B	1110
890-456-3	BH-2	Total/NA	Solid	8021B	1110
890-456-4	SW-2	Total/NA	Solid	8021B	1110
890-456-5	BH-3	Total/NA	Solid	8021B	1110
MB 880-1097/5-A	Method Blank	Total/NA	Solid	8021B	1097
MB 880-1110/5-A	Method Blank	Total/NA	Solid	8021B	1110
LCS 880-1110/1-A	Lab Control Sample	Total/NA	Solid	8021B	1110
LCSD 880-1110/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1110

Prep Batch: 1110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-456-1	BH-1	Total/NA	Solid	5035	_
890-456-2	SW-1	Total/NA	Solid	5035	
890-456-3	BH-2	Total/NA	Solid	5035	
890-456-4	SW-2	Total/NA	Solid	5035	
890-456-5	BH-3	Total/NA	Solid	5035	
MB 880-1110/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1110/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1110/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 1092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-456-1	BH-1	Total/NA	Solid	8015B NM	1113
890-456-2	SW-1	Total/NA	Solid	8015B NM	1113
890-456-3	BH-2	Total/NA	Solid	8015B NM	1113
890-456-4	SW-2	Total/NA	Solid	8015B NM	1113
890-456-5	BH-3	Total/NA	Solid	8015B NM	1113
MB 880-1113/1-A	Method Blank	Total/NA	Solid	8015B NM	1113
LCS 880-1113/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1113
LCSD 880-1113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1113

Prep Batch: 1113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-456-1	BH-1	Total/NA	Solid	8015NM Prep	
890-456-2	SW-1	Total/NA	Solid	8015NM Prep	
890-456-3	BH-2	Total/NA	Solid	8015NM Prep	
890-456-4	SW-2	Total/NA	Solid	8015NM Prep	
890-456-5	BH-3	Total/NA	Solid	8015NM Prep	
MB 880-1113/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1113/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

2

3

4

5

_

8

40

11

13

| 4

QC Association Summary

Client: GHD Services Inc.

Project/Site: Uncial AHU Federal

Job ID: 890-456-1

SDG: 11220756

HPLC/IC

Leach Batch: 1118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-456-1	BH-1	Soluble	Solid	DI Leach	
890-456-2	SW-1	Soluble	Solid	DI Leach	
890-456-3	BH-2	Soluble	Solid	DI Leach	
890-456-4	SW-2	Soluble	Solid	DI Leach	
890-456-5	BH-3	Soluble	Solid	DI Leach	
MB 880-1118/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1118/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1118/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-456-1	BH-1	Soluble	Solid	300.0	1118
890-456-2	SW-1	Soluble	Solid	300.0	1118
890-456-3	BH-2	Soluble	Solid	300.0	1118
890-456-4	SW-2	Soluble	Solid	300.0	1118
890-456-5	BH-3	Soluble	Solid	300.0	1118
MB 880-1118/1-A	Method Blank	Soluble	Solid	300.0	1118
LCS 880-1118/2-A	Lab Control Sample	Soluble	Solid	300.0	1118
LCSD 880-1118/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1118

Eurofins Xenco, Carlsbad

3

_

6

8

Q

10

4.0

13

Job ID: 890-456-1

SDG: 11220756

Client Sample ID: BH-1

Client: GHD Services Inc.

Date Collected: 03/29/21 10:00 Date Received: 03/30/21 11:55

Project/Site: Uncial AHU Federal

Lab Sample ID: 890-456-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1110	03/31/21 13:46	KL	XM
Total/NA	Analysis	8021B		1	1099	04/01/21 02:12	KL	XM
Total/NA	Prep	8015NM Prep			1113	03/31/21 14:08	DM	XM
Total/NA	Analysis	8015B NM		1	1092	04/01/21 01:10	AJ	XM
Soluble	Leach	DI Leach			1118	03/31/21 14:48	SC	XM
Soluble	Analysis	300.0		1	1132	03/31/21 22:38	CH	XM

Client Sample ID: SW-1 Lab Sample ID: 890-456-2 Date Collected: 03/29/21 10:30 **Matrix: Solid**

Date Received: 03/30/21 11:55

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 5035 03/31/21 13:46 KL XM Total/NA 8021B 1099 04/01/21 02:33 KL XM Analysis 1 Total/NA Prep 8015NM Prep 1113 03/31/21 14:08 DM XM Total/NA Analysis 8015B NM 1092 04/01/21 01:31 AJ XM 1 Soluble Leach DI Leach 1118 03/31/21 14:48 SC ΧM 300.0 Soluble XM Analysis 1132 03/31/21 22:44 CH 1

Client Sample ID: BH-2 Lab Sample ID: 890-456-3

Date Collected: 03/29/21 11:00 Matrix: Solid Date Received: 03/30/21 11:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1110	03/31/21 13:46	KL	XM
Total/NA	Analysis	8021B		1	1099	04/01/21 02:53	KL	XM
Total/NA	Prep	8015NM Prep			1113	03/31/21 14:08	DM	XM
Total/NA	Analysis	8015B NM		1	1092	04/01/21 01:52	AJ	XM
Soluble	Leach	DI Leach			1118	03/31/21 14:48	SC	XM
Soluble	Analysis	300.0		1	1132	04/01/21 01:15	CH	XM

Lab Sample ID: 890-456-4 Client Sample ID: SW-2 Date Collected: 03/29/21 11:30 Matrix: Solid

Date Received: 03/30/21 11:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1110	03/31/21 13:46	KL	XM
Total/NA	Analysis	8021B		1	1099	04/01/21 03:13	KL	XM
Total/NA	Prep	8015NM Prep			1113	03/31/21 14:08	DM	XM
Total/NA	Analysis	8015B NM		1	1092	04/01/21 02:14	AJ	XM
Soluble	Leach	DI Leach			1118	03/31/21 14:48	SC	XM
Soluble	Analysis	300.0		1	1132	04/01/21 01:20	CH	XM

Date Received: 03/30/21 11:55

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-456-1 Project/Site: Uncial AHU Federal SDG: 11220756

Client Sample ID: BH-3 Lab Sample ID: 890-456-5 Date Collected: 03/29/21 11:45

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1110	03/31/21 13:46	KL	XM
Total/NA	Analysis	8021B		1	1099	04/01/21 03:34	KL	XM
Total/NA	Prep	8015NM Prep			1113	03/31/21 14:08	DM	XM
Total/NA	Analysis	8015B NM		1	1092	04/01/21 02:35	AJ	XM
Soluble	Leach	DI Leach			1118	03/31/21 14:48	SC	XM
Soluble	Analysis	300.0		1	1132	04/01/21 01:26	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 890-456-1 Project/Site: Uncial AHU Federal SDG: 11220756

Laboratory: Eurofins Xenco, Midland

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

Authority		Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-20-21	06-30-21
The following analyte the agency does not		eport, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
		0.151	T / LTDLL	
8015B NM	8015NM Prep	Solid	Total TPH	

Page 17 of 23

Method Summary

Client: GHD Services Inc. Project/Site: Uncial AHU Federal Job ID: 890-456-1

SDG: 11220756

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: GHD Services Inc. Project/Site: Uncial AHU Federal Job ID: 890-456-1

SDG:	11220756	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
390-456-1	BH-1	Solid	03/29/21 10:00	03/30/21 11:55	
90-456-2	SW-1	Solid	03/29/21 10:30	03/30/21 11:55	
90-456-3	BH-2	Solid	03/29/21 11:00	03/30/21 11:55	
90-456-4	SW-2	Solid	03/29/21 11:30	03/30/21 11:55	
390-456-5	BH-3	Solid	03/29/21 11:45	03/30/21 11:55	

Л

5

_

8

46

11

13

Setting the Stand

Stafford, Texas (281-240-4200) Service Center - San Antonio, Texas (210-509-3334) Dallas Texas (214-902-0300)

Lakeland, Florida (863-646-8526)	Odessa, Texas (432-563-1800)	1-240-4200)
		lard since 1990
	Page 1 Of 1	
	CHAIN OF CUSTODY	

13

lotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENOO's standard terms and conditions of service Company Name / Branch: GHD/Midland Samplers's Name Zach Comino Email: becky.haskell@ghd.com glenn.guinney@ghd.com Company Address: 2135 S . Loop 250 West Midland TX Project Contact: Becky Haskell / Glenn Quinney Š. 10 Relinquished by: Relinquished by Sampler: X Same Day TAT 3 Day EMERGENCY TAT Starts Day received by Lab, if received by 5:00 pm 2 Day EMERGENCY Next Day EMERGENCY Client / Reporting Information 13H-2 3 SW-2 DH-3 Turnaround Time (Business days) Field ID / Point of Collection Contract TAT 7 Day TAT tom.larson@ghd com SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY 5 Day TAT Phone No: (432)250-7917 Zach.comino@ghd.com Date Time: Date Time: Date Time: Sample Depth Project Name/Number: 25/2021 PO Number: NA 1130 Eddy County, New Mexico EOG / James Kennedy Received By: 1030 145 8 000 Received By: Report MDLs and J values Received By: Project Information Level 3 (CLP Forms) Level III Std QC+ Forms TRRP Checklist Level II Std QC Uncial AHU Federal / 11220756 5 Data Deliverable Information MAY XELCO COLD # of € HCI NaOH/Zn Acetate HNO3 UST / RG -411 Relinquished By: Custody Seal # TRRP Level IV Level IV (Full Data Pkg /raw data) H2SO4 NaOH NaHSO4 меон NONE Norcross, Georgia (770-449-8800) TPH By 8015 Mod (GRO, DRO & MRO) Preserved × BTEX 8021 B Date Time: Chloride 600 Analytical Information where applicable Received By: Received By: Xenco Job 1 890-456 Chain of Custody NO SSOW / Direct Bill to EOG Tampa, Florida (813-620-2000) 0 ield Comments DW = Drinking Water WW= Waste Water 0 = 01 W = Wipe OW =Ocean/Sea Water SL = SludgeSW = Surface water P = Product GW =Ground Water S = Soil/Sed/Solid Matrix Codes ò 3 Page 20 of 23 Released to Imaging:

4/1/2021

1089 N Canal St

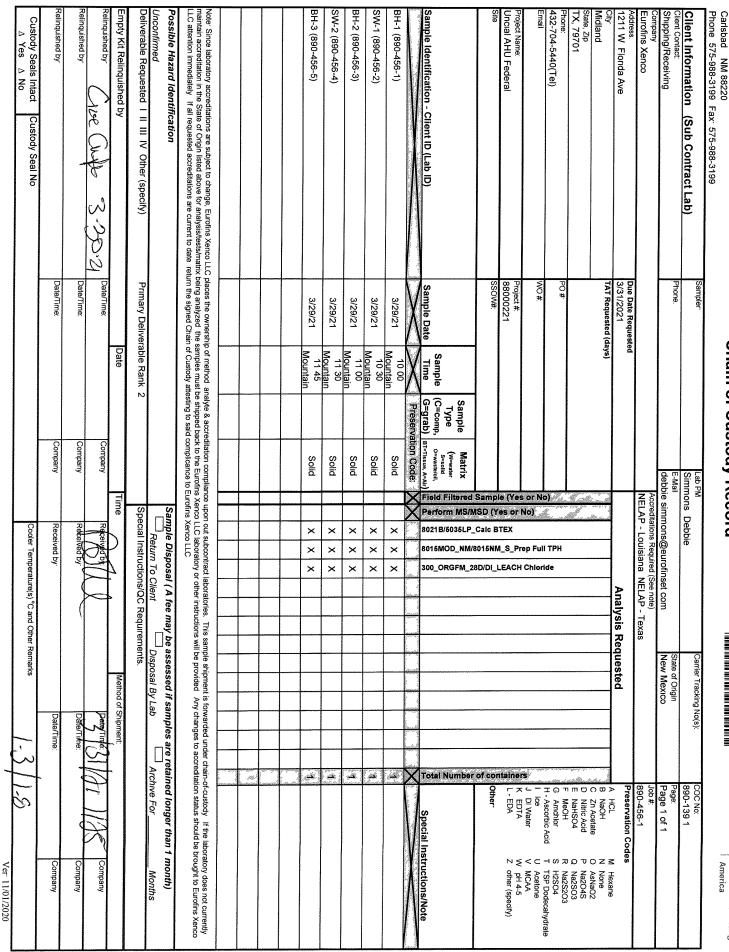
Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

_			
Ξ			=
-	-		,
=		_	
_			=
=			•
=	===		=
100	-		
Ĭ			
=	_	_	=
=		-	•
_			
-			
=			=
=			•
=			-
=			
=		_	•
-			
=			•
-		_	•
=			
Ξ			=
=			•
			-

	💸 eurofins
America	Total Total



Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-456-1
SDG Number: 11220756

List Source: Eurofins Carlsbad

Login Number: 456 List Number: 1 Creator: Clifton, Cloe

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

1

3

4

5

7

9

11

13

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-456-1 SDG Number: 11220756

Login Number: 456 **List Source: Eurofins Midland** List Number: 2 List Creation: 03/31/21 11:39 AM

Creator: Teel, Brianna

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

Approved Form C-138 and Manifests

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-138 Revised August 1, 2011

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

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

REQUEST FOR APPROVAL TO A	ACCEPT SOLID WASTE	
1. Generator Name and Address:		
EOG Resources Inc.		
2. Originating Site:		
Unocal AHU Federal #1		
3. Location of Material (Street Address, City, State or ULSTR):		
B-01-22S-31E 32.42585 -103.72889		
4. Source and Description of Waste:		
Estimated Volume 55 yd3/bbls Known Volume (to be entered be 5. GENERATOR CERTIFICATION STATE	by the operator at the end of the haul) MENT OF WASTE STATUS EOG Resources Inc.	yd³/bbls
I, Rebecca Haskell , representative or authorized agent for certify that according to the Resource Conservation and Recovery Act (RCR regulatory determination, the above described waste is: (Check the appropria	A) and the US Environmental Protection Age	do hereby ency's July 1988
RCRA Exempt: Oil field wastes generated from oil and gas explora exempt waste. Operator Use Only: Waste Acceptance Frequency	tion and production operations and are not m ☐ Monthly ☐ Weekly ☐ Per Load	ixed with non-
RCRA Non-Exempt: Oil field waste which is non-hazardous that de characteristics established in RCRA regulations, 40 CFR 261.21-261.24 subpart D, as amended. The following documentation is attached to den the appropriate items)	, or listed hazardous waste as defined in 40 C	CFR, part 261,
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Proces	s Knowledge	n in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICA	TION STATEMENT FOR LANDFARMS	;
I, Rebecca Haskell , representative for EOG Resource	es Inc. do hereby certif	
representative samples of the oil field waste have been subjected to the paint have been found to conform to the specific requirements applicable to landfa of the representative samples are attached to demonstrate the above-describe 19.15.36 NMAC.	filter test and tested for chloride content and arms pursuant to Section 15 of 19.15.36 NMA	AC. The results
5. Transporter:		
SDR		
OCD Permitted Surface Waste Management Facility		
Name and Facility Permit #: Lea Land, LLC Permit #: WM-1-0	35	
Address of Facility: NM 64 Hwy 62/180 East, Carlsbad, N 8	8220	
Method of Treatment and/or Disposal:		
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ La	andfarm 🛛 Landfill 🗌 Other	
Waste Acceptance Status: ☑ APPROVED	☐ DENIED (Must Be Maintained As Per	
PRINT NAME: Shelly Denton TITLE:		3-30-21
SIGNATURE: OM AND TELEP	HONE NO .: 405-436-4257	

Surface Waste Management Facility Authorized Agent

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**

COMMENTS

Action 224630

COMMENTS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	224630
	Action Type:
	[C-141] Release Corrective Action (C-141)

COMMENTS

Created	Comment	Comment Date
csmit	Returned to OCD Review, to review delineation/closure samples	7/27/2023

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 224630

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	224630
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/27/2023