-		SIT	TE INFORM	ATION					
Report Type: Closure Report 2RP-3993									
General Site Info	-			•					
Site:		Ross Gulch	8-3 SWD						
Company:		EOG Resour							
Section, Townsh	nip and Range	Unit K	Sec. 8	T 26S	R 31E				
Lease Number:		API No. 30-0							
County:		Eddy County							
GPS:			32.05680° N		1	03.80110º W			
Surface Owner:		Private							
Mineral Owner:		- u			5	O			
Directions:						County, travel EAST on			
						Rd for approximately 11.5 EAST onto lease road for			
			0.10 mi to location.	u ioi appioxi	imatery 0.5 mi, turn	EAST OIRO lease road for			
		αρρισχιπαίος (o. To Thi to location.						
Release Data:									
Date Released:		11/6/2016							
Type Release:		Produced Wa	ater						
Source of Contan	nination:	Lighting Strike							
Fluid Released:		1200 bbls	<u> </u>						
Fluids Recovered	<u>l:</u>	1140 bbls							
Official Commun									
Vame:	Zane Kurtz				Ike Tavarez				
Company:	EOG Resources, In	C			Tetra Tech				
Address:	5509 Champions D				4000 N. Big Spring	•			
-uui ess.	5509 Champions D	live)			
O.1.					Ste 401				
City:	Midland Texas, 797	016			Midland, Texas				
Phone number:	(432) 686-3667				(432) 687-8110				
-ax:									
Email:	Zane_Kurtz@eog	resources.com	<u>1</u>		Ike.Tavarez@tet	ratech.com			
Ranking Criteria									
			In	ı	0.11	D. (
Depth to Groundw <50 ft	/ater:		Ranking Score		Site	Data			
50-99 ft			10						
100 ft.			0		13	20'			
WellHead Protecti			Ranking Score		Site	Data			
	000 ft., Private <200 f		20						
Water Source >1,0	000 ft., Private >200 f	t.	0		C)			
Punto o a Donto - 611	Votor:		Donking Coor	1	Office	Data			
Surface Body of V <200 ft.	vater:		Ranking Score		Site	Data			
200 ft - 1,000 ft.			10						
>1,000 ft.			0		()			
Tot	tal Ranking Score:		0						
				I	_				
		_	ble Soil RRAL (n						
		Benzene	Total BTEX	TPH	J				
		10	50	5,000					



June 26, 2017

Mike Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Closure Report for the EOG Resources, Inc., Ross Gulch 8-3 SWD, Unit K, Section 8, Township 26 South, Range 31 East, Eddy County, New Mexico. 2RP-3993

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources, Inc, (EOG) to assess and remediate a release that occurred at the Ross Gulch 8-3 SWD, Unit K, Section 8, Township 26 South, Range 31 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.05680°, W 103.80110°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on November 6, 2016, and released approximately twelve hundred (1,200) barrels of produced water due to a lightning strike. The majority of the fluids were contained inside the lined facility and some fluids migrated onto the pad, measuring approximately 60' x 150'. Approximately eleven hundred and forty (1,140) barrels of produced water were recovered. The facility was dismantled for the construction of a new facility on the pad. The initial C-141 form is included in Appendix A.

Groundwater

Three (3) water wells are listed within Section 8 on the New Mexico Office of the State Engineer's database and the depth to groundwater listed for the three wells ranged from 292' to 300' below surface. The Geology and Ground-Water Resources of Eddy County, New Mexico, Ground-Water Report 3, reported two wells in Section 8 with depths to groundwater of 250' and 278.5' below surface. Additionally, according to the Chevron Texaco Groundwater Trend Map, the average depth to groundwater in this area shows depth between 275' and 300' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On December 5, 2016, Tetra Tech personnel were onsite to evaluate and sample the release area. Three (3) backhoe sample trenches (T-1, T-2, and T-3) were installed to total depths of 2.5' to 5.0' below surface. Additionally, a background trench (T-4 Background) was installed to a depth of 3.0' below surface in order to evaluate the chloride concentrations in the native soils. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The trench locations are shown on Figure 3.

Referring to Table 1, none of the samples showed total TPH, benzene, or total BTEX concentrations above the RRAL's. The area of trenches (T-1, T-2, and T-3) detected traces of total BTEX concentrations of 0.00350 mg/kg, 0.00352 mg/kg, and 0.00317 mg/kg at 0-1' below the RRAL's.

The area of trench (T-2) did not show a significant chloride impact to the area with a concentration high of 377 mg/kg at 0-1' below surface. However, the areas of trenches (T-1 and T-3) showed elevated chloride concentrations in the shallow soils. The area of trench (T-1) showed a chloride concentration of 5,870 mg/kg at 0-1', which then declined with depth to 673 mg/kg at 2.0' and showed a bottom concentration of 45.0 mg/kg at 5.0' below surface. The area of trench (T-3) showed a chloride concentration of 3,110 mg/kg at 0-1', which then declined to 212 mg/kg at 2.0' below surface. However, the chloride concentration spiked to 2,040 mg/kg at 2.5' below surface. Deeper samples could not be collected with the backhoe due to a dense rock formation.

The background trench (T-4) showed chloride concentrations ranging from <50.0 mg/kg at 0-1' to 115 mg/kg at 2.0' below surface.



Based on the laboratory results, Tetra Tech personnel returned to the site on December 28, 2016, to re-sample and attempt to grab deeper samples with a backhoe in the area of trench (T-3). One additional sample at trench (T-3) was collected at 2.0-3.0' below surface but could not penetrate the rock formation for deeper samples. Selected samples were analyzed for chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1.

Referring to Table 1, the sample at 2.0-3.0' below surface collected at trench (T-3) showed a declining chloride concentration of 1,060 mg/kg and was not vertically defined. Due to the dense formation, the chloride concentration may have been cross contamination with the upper soils sloughing into the open trench. Based on the depth to groundwater and the limited area on the facility pad, the chloride concentration detected at 2.0-3.0' below surface does not appear to be an environmental concern.

Remediation

On April 24-25, 2017, Tetra Tech personnel were onsite from to supervise the excavation of the impacted areas. As proposed in the work plan, the excavation areas and depths are highlighted (green) in Table 1 and shown on Figure 4. Based on the laboratory results, the area of trench (T-1) was excavated to 1.0' below surface and measured approximately 5' x 75'. In addition, the area of trench (T-3) was excavated to 2.5'-3.0' below surface and measured approximately 25' x 25'.

Once removed to the appropriate depth, a bottom hole sample in the area of trench (T-3) showed a field chloride of approximately 800 ppm at 2.5-3.0' below surface. The excavated areas were then backfilled with clean material to surface grade. All of the excavated material was transported offsite for proper disposal. Approximately 80 cubic yards of material was removed and transported for proper disposal.

Conclusion

Based on the remediation work performed at the site, EOG request closure of this spill issue. The final C-141 is shown in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,

TETRA TECH

Clair Gonzales,

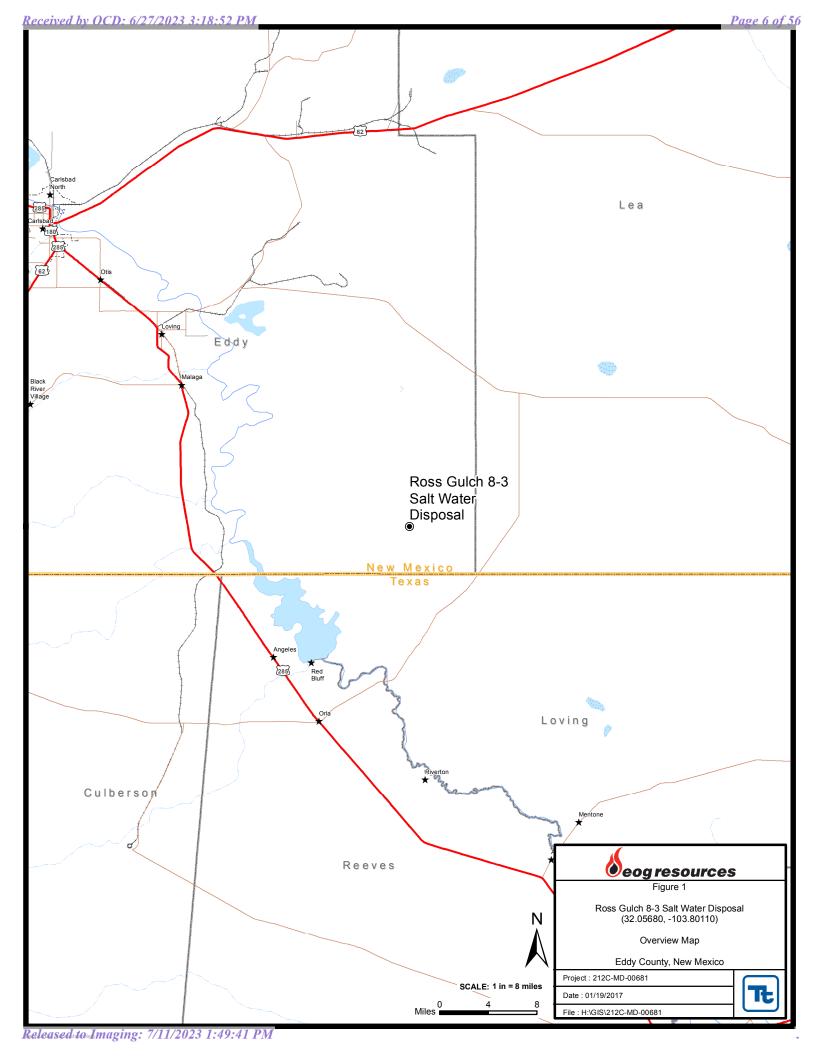
Geologist I

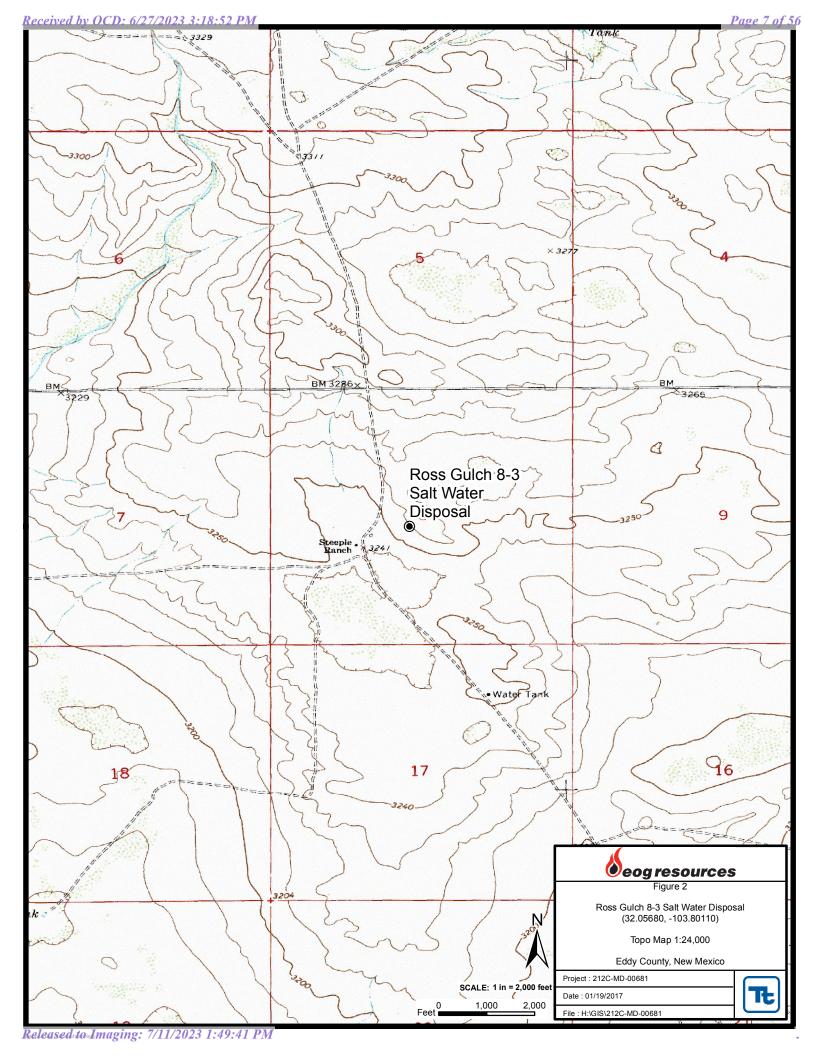
Ike Tavarez,

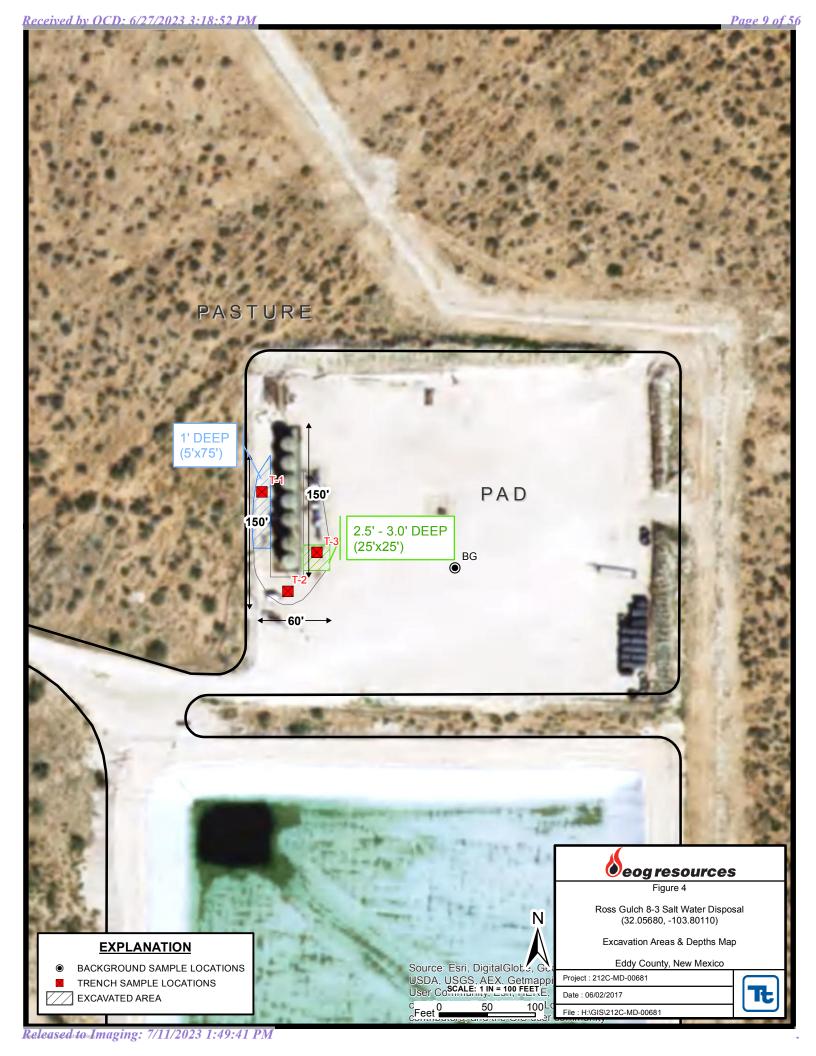
Senior Project Manager, P.G.

cc: Zane Kurtz – EOG

Figures







Tables

Table 1
EOG Resources
Ross Gulch 8-3 Salt Water Disposal
Eddy County, New Mexico

Comple ID	Sample Date	Sample	Sample BEB	Soil Status			TPH (mg/kg)		Benzene	Toluene	Ethlybenzene Xylene	Total C	Chloride	
Sample ID	Sample Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Trench 1	12/5/2016	0-1	-		Х	<15.0	<15.0	<15.0	<0.00149	<0.00198	0.00350	<0.00198	0.00350	5,870
	11	2	-	Χ		-	ı	ı	-	-	-	-	-	673
	11	4	-	Χ		-	-	-	-	-	-	-	-	113
	"	5	-	X		-	-	-	-	-	-	-	-	45
Trench 2	12/5/2016	0-1	-	Х		<15.0	<15.0	<15.0	<0.00151	<0.00201	0.00352	<0.00201	0.00352	377
	"	2	-	Х		-	-	-	-	-	-	-	-	146
	"	4	-	Χ		-	-	-	-	-	-	-	-	60.4
	11	5	-	Х		-	-	-	-	-	-	-	-	175
Trench 3	12/5/2016	0-1	-	Х		<15.0	<15.0	<15.0	<0.00150	<0.00200	0.00317	<0.00200	0.00317	3,110
	"	2	-		Х	-	-	-	-	-	-	-	-	212
	11	2.5	-		Х	-	-	-	-	-	-	-	-	2,040
Trench 3 (AH-1) *	12/28/2016	2-3	-		Х	-	-	-	-	-	-	-	-	1,060
	12/20/2010													1,000
(Bottom hole field reading)		2.5-3.0								1	Field Chloride	I		800
Trench 4 (background)	12/5/2016	0-1	-	Х		-	-	-	-	-	-	-	-	<50.0
	"	2	-	Χ		-	-	-	-	-	-	-	-	115
	"	3	-	Χ		-	-	-	-	-	-	-	-	81.9

(-) Not Analyzed

(BEB) Below Excavation Bottom

Excavation Depths

* Resampled

Photos





View North - Area of T-1



View North – Area of T-2





View North - Area of T-3



View North – Area of T-4 Background





View South - Area of T-1 excavated



View North – Area of T-1 Backfilled





View North - Area of T-3 excavated



View North East - Area of T-3 Backfilled

Appendix A

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	cation	and Co	orrective A	ction	1			
						OPERA'	ГOR			al Report		Final Repor
Name of Co	mpany E	OG Resourc	es, Inc.			Contact Zane Kurtz						
		ions Drive,		TX 79706		Telephone No. 432-425-2023						
Facility Nar	ne Ross C	Sulch 8-3 SV	VD			Facility Typ	e active well					
Surface Ow	ner FEE			Mineral C	wner				API No	. 30-015-3	9736	
				LOCA	ATIO	OF RE	LEASE					
Unit Letter K	Section 8	Township 26S	Range 31E	Feet from the 2455	North/ S	h/South Line Feet from the East. 2452 S		ı	West Line	County Eddy		
		l	<u>Latit</u>	ude 32.	0567_I	ongitude_	-103.8011	I	-			
				NAT	URE	OF REL	EASE					
Type of Release							Release 1200bb			Recovered 1		ls
Source of Re	lease Light	ning strike				Date and F	Iour of Occurrenc	e	Date and 11-6-16	Hour of Dis	covery	
Was Immedia	ate Notice C		Yes 🗵	No □ Not Re	equired	If YES, To	Whom?		11-0-10			
By Whom?						Date and H	lour					
Was a Watero	course Reac	ched?	Yes 🗵] No		If YES, Vo	olume Impacting t	he Wate	ercourse.			
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	k		1						
	·	•	_									
							-					
and around th down and wil release. Furth	was struck e containm I be disman er actions v	by lightning t ent. Vacuum itled. A new fi vill be determ	hat rolled trucks wer acility wil ined at tha	in from a bad stor re called in to rem I be built on the sa at time.	ove all s	tanding fluid	s and recovered 1	140 bbl	s of produc	ed water. Th	e facili	ty was shut
Describe Area		·										
regulations al public health should their o	l operators or the envir perations h iment. In a	are required to conment. The ave failed to a ddition, NMC	o report ar acceptance dequately CD accep	is true and completed of file certain rese of a C-141 repoint of a C-141 repoint and research of a C-141 repoint ance of a C-141 repoint ance of a C-141 repoint of a	elease no ort by the emediate	otifications are NMOCD me contaminati	nd perform correct arked as "Final Roon that pose a throet the operator of records."	tive acti eport" d eat to gr esponsi	ions for rele loes not reli round water bility for co	eases which leve the oper surface wa ompliance w	may end ator of ter, hun ith any	danger liability nan health
		// /					OIL CONS	SERV	ATION	DIVISIO	<u>N</u>	
Signature:	50-	#. b-				۸ ا ا	F	1	_			
Printed Name	: Jamon H	ohensee				approved by	Environmental Sp		··			
Title: Enviror	mental Rep	presentative			A	Approval Dat	e:]	Expiration l	Date:		
E-mail Addre	ss: jamon_l	nohensee@eo	gresources	s.com	(Conditions of	Approval:			Attached		
Date: 11/10/16 Phone: 432-686-3630												

Final Report

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

☐ Initial Report

Release Notification and Corrective Action

OPERATOR

Name of Co	mpany E	OG Resour	ces, Inc.		(Contact Za	ne Kurtz			
Address 5509 Champions Drive, Midland TX 79706 Telephone No. (432) 425-2										
Facility Nar	ne Ross C	Sulch 8-3 SV	VD]	Facility Typ	e Active Well			
Surface Ow	ner: Fee			Mineral O	wner				API No	. 30-015-39736
Surrace o III				1					1111110	
		- I				OF REI		- AT		- C
Unit Letter K	Section 8	Township 26S	Range 31E	Feet from the 2455	North/	South Line	Feet from the 2452		est Line S	County Eddy
K	0	203	SIE	2433		S	2432		S	Euuy
	Latitude N 32.0567° Longitude W -103.8011°									
						OF RELI				
Type of Rele	ase: Produc	ed Water		11111	CILL		Release 1200bbl	s	Volume R	Recovered 1140 bbls
Source of Re						Date and H	lour of Occurrence	e		Hour of Discovery
	37.1.6	71 0				11-6-16			11-6-16	
Was Immedia	ate Notice C	iven?	Yes [No Not Rec	quired	If YES, To	Whom?			
By Whom?						Date and H	lour			
Was a Water	course Reac	_	** \	1 37		If YES, Vo	lume Impacting the	he Water	rcourse.	
			Yes 🛚] No						
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*	•						
N/A										
IV/A										
Describe Cau					11 6 1	6. Due to the	strika annrovima	stals: 120	O bbla of n	oroduced water leaked in and
										ed water. The facility was shut
				l be built on the sa					F	
D '1 4	A CC 1	1.01	V T. 1	ste.						
Describe Are					sill exte	nt Soil that e	xceeded the RRA	I was re	emoved an	d hauled away for proper
disposal. The	site was the	en brought up	to surface	grade with clean	backfill	material. Tet	ra Tech prepared	closure	report and	submitted to NMOCD for
review.									-	
I hereby certi	fy that the i	nformation gi	ven above	is true and comple	ete to th	ne best of my	knowledge and u	nderstan	d that purs	uant to NMOCD rules and
regulations al	l operators	are required to	o report ar	nd/or file certain re	lease no	otifications ar	nd perform correc	tive actio	ons for rele	eases which may endanger
										eve the operator of liability
										s, surface water, human health ompliance with any other
federal, state,					cport di	oes not renev	e the operator of i	Съропън	office to the	impliance with any other
		2 ->>					OIL CONS	SERV	ATION	DIVISION
Signature:		4 115								
Signature.										
Printed Name	rinted Name: Ike Tavarez (agent for EOG) Approved by District Supervisor:									
Title: Project	Manager					Approval Dat	e:	E	Expiration 1	Date:
								ı	-	
E-mail Addre	ess: Ike.Tav	arez@TetraTe	ech.com		(Conditions of	Approval:			Attached
Date:	6/26/	17	Ph	ione: (432) 682-45	59					

^{*} Attach Additional Sheets If Necessary

Received by OCD: 6/27/2023 3:18:52 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 20 of 56
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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: 6/27/2023 3:18:52 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 21 of 5	6
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature: Jan Holy	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date:06/28/2023

Page 22 of 56

Incident ID
District RP
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 iter	ms must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos or must be notified 2 days prior to liner inspection)	f the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC l	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
	cdiate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in
Printed Name:	Title:
Signature: Jan Kohy 1	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date:06/28/2023
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date:07/11/2023
Printed Name: Jocelyn Harimon	Title: Environmental Specialist

Appendix B

Water Well Data Average Depth to Groundwater (ft) EOG - Ross Gulch 8-3 SWD Eddy County, New Mexico

	25 Sc	outh	30	East	
6	5	4	3	2 295	1
7 264	8	9 295	10	11	12 390
18	17	16	15	14	13
19	20	21 265 268	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	25 Sc	outh	31	East			
6	5	4	3	2	1		
7	8	9	10	11	12		
18	17	16	15	14	13		
19	20	21 390 290	22	23	24		
30	29	28	27	26	25		
31	32	33	34	35	36		
26 South 31 East							

	25 S	outh		32 East			
6	5	4	3	2	1		
7	8	9	10	11	12		
18	17	16	15	14	13		
19	20	21	22	23	24		
30	29	28	27	26	25		
31	32 290	33	34	35	36		

	26 Sc	outh	30	East	
6	5 179 180	4	3	2	1
7	8 172	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24 180
30	29	28	27	26	25
31	32	33	34	35	36

	26 Sc	uth	31	East	
6	5	4	3	2	1 335 287
7	8 295 275	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	26 So	uth	32	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 333 180	22	23	24
30	29	28	27	26	25
31 295	32	33	34	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143 NMOCD Groundwater map well location



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD Sub-		Q (a q						Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	×	Y	•	•	Column
<u>C 01777</u>	С	ED			80	26S	31E	613245	3547409* 🌕	325	300	25
<u>C 02090</u>		ED	4	1 4	01	26S	31E	620329	3548533* 🌕	350	335	15
C 02248		ED	1 2	2 3	80	26S	31E	612942	3547316* 🌕	300	292	8
<u>C 02249</u>		ED	1 2	2 3	80	26S	31E	612942	3547316* 🌕	300	292	8
C 03554 POD1	CUB	ED	2 1	4	01	26S	31E	620547	3549148 🌍	630	300	330
C 03639 POD1	CUB	ED	3 4	2	01	26S	31E	620168	3549279 🌎	700	365	335

Average Depth to Water: 314 feet

Minimum Depth: 292 feet

Maximum Depth: 365 feet

Record Count: 6

PLSS Search:

Township: 26S Range: 31E

*UTM location was derived from PLSS - see Help

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

Appendix C

Analytical Report 541643

for Tetra Tech- Midland

Project Manager: Ike Tavarez
EOG - Ross Gulch 8-3 SWD
212C-MD-00681
15-DEC-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





15-DEC-16

Project Manager: **Ike Tavarez Tetra Tech- Midland**4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): 541643

EOG - Ross Gulch 8-3 SWD Project Address: Eddy Co, NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 541643. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 541643 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Mus Hoah

Kelsey Brooks

Project Manager

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Sample Cross Reference 541643



Tetra Tech- Midland, Midland, TX

EOG - Ross Gulch 8-3 SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Trench #1 0-1'	S	12-05-16 00:00	0 - 1 ft	541643-001
Trench #1 2'	S	12-05-16 00:00	- 2 ft	541643-002
Trench #1 4'	S	12-05-16 00:00	- 4 ft	541643-003
Trench #1 5'	S	12-05-16 00:00	- 5 ft	541643-004
Trench #2 0-1'	S	12-05-16 00:00	0 - 1 ft	541643-005
Trench #2 2'	S	12-05-16 00:00	- 2 ft	541643-006
Trench #2 4'	S	12-05-16 00:00	- 4 ft	541643-007
Trench #2 5'	S	12-05-16 00:00	- 5 ft	541643-008
Trench #3 0-1'	S	12-05-16 00:00	0 - 1 ft	541643-009
Trench #3 2'	S	12-05-16 00:00	- 2 ft	541643-010
Trench #3 2.5'	S	12-05-16 00:00	- 2.5 ft	541643-011
Trench #4 0-1' Background	S	12-05-16 00:00	0 - 1 ft	541643-012
Trench #4 2' Background	S	12-05-16 00:00	- 2 ft	541643-013
Trench #4 3' Background	S	12-05-16 00:00	- 3 ft	541643-014



CASE NARRATIVE



Client Name: Tetra Tech- Midland Project Name: EOG - Ross Gulch 8-3 SWD

 Project ID:
 212C-MD-00681
 Report Date:
 15-DEC-16

 Work Order Number(s):
 541643
 Date Received:
 12/08/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3005304 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 541643

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Ross Gulch 8-3 SWD



TNI ABORATORY

Project Id: 212C-MD-00681

Contact: Ike Tavarez

Project Location: Eddy Co, NM

Date Received in Lab: Thu Dec-08-16 09:40 am

Report Date: 15-DEC-16 **Project Manager:** Kelsey Brooks

	Lab Id:	541643-0	01	541643-0	02	541643-0	02	541643-0	0.4	541643-0	105	541643-0	000
					-								
Analysis Requested	Field Id:	Trench #1	0-1'	Trench #1	. 2'	Trench #1	4'	Trench #1	5'	Trench #2	0-1'	Trench #2	2 2'
Timutysis Requesicu	Depth:	0-1 ft		2 ft		4 ft		5 ft		0-1 ft		2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-05-16 (00:00	Dec-05-16 (00:00	Dec-05-16 (00:00	Dec-05-16 (00:00	Dec-05-16	00:00	Dec-05-16	00:00
BTEX by EPA 8021B	Extracted:	Dec-08-16 1	15:00							Dec-08-16	15:00		
	Analyzed:	Dec-08-16 2	22:42							Dec-08-16 2	22:59		
	Units/RL:	mg/kg	RL							mg/kg	RL		
Benzene		< 0.00149	0.00149							< 0.00151	0.00151		
Toluene		< 0.00198	0.00198							< 0.00201	0.00201		
Ethylbenzene		0.00350	0.00198							0.00352	0.00201		
m,p-Xylenes		< 0.00198	0.00198							< 0.00201	0.00201		
o-Xylene		< 0.00297	0.00297							< 0.00301	0.00301		
Total Xylenes		< 0.00198	0.00198							< 0.00201	0.00201		
Total BTEX		0.00350	0.00149							0.00352	0.00151		
Inorganic Anions by EPA 300/300.1	Extracted:	Dec-12-16 1	17:25	Dec-12-16 1	7:25	Dec-12-16 1	17:25	Dec-12-16 1	7:25	Dec-12-16	17:25	Dec-12-16	17:25
	Analyzed:	Dec-12-16 2	20:16	Dec-12-16 2	20:30	Dec-12-16 2	20:37	Dec-12-16 2	20:44	Dec-12-16	20:51	Dec-12-16	20:58
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5870	100	673	50.0	113	5.00	45.1	5.00	377	5.00	146	50.0
TPH By SW8015 Mod	Extracted:	Dec-14-16 (07:00							Dec-14-16 (07:00		
	Analyzed:	Dec-14-16 1	15:38							Dec-14-16	16:01		
	Units/RL:	mg/kg	RL							mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		<15.0	15.0							<15.0	15.0		
C10-C28 Diesel Range Hydrocarbons		<15.0	15.0							<15.0	15.0		
C28-C35 Oil Range Hydrocarbons		<15.0	15.0							<15.0	15.0		
Total TPH		<15.0	15.0							<15.0	15.0		

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

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Kelsey Brooks Project Manager

Knis Roah



212C-MD-00681

Ike Tavarez

Eddy Co, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 541643

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Ross Gulch 8-3 SWD



Project Name: 1

Date Received in Lab: Thu Dec-08-16 09:40 am

Report Date: 15-DEC-16 **Project Manager:** Kelsey Brooks

	Lab Id:	541643-0	07	541643-0	M8	541643-0	000	541643-0	10	541643-0	11	541643-0	112
							-						
Analysis Requested	Field Id:	Trench #2	24'	Trench #2	25'	Trench #3	1	Trench #3	3 2'	Trench #3	2.5	Trench #4 0-1' Ba	Ü
	Depth:	4 ft		5 ft		0-1 ft		2 ft		2.5 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-05-16 (00:00	Dec-05-16 (00:00	Dec-05-16	00:00	Dec-05-16 (00:00	Dec-05-16 (00:00	Dec-05-16 (00:00
BTEX by EPA 8021B	Extracted:					Dec-08-16	15:00						
	Analyzed:					Dec-08-16	23:14						
	Units/RL:					mg/kg	RL						
Benzene						< 0.00150	0.00150						
Toluene						< 0.00200	0.00200						
Ethylbenzene						0.00317	0.00200						
m,p-Xylenes						< 0.00200	0.00200						
o-Xylene						< 0.00301	0.00301						
Total Xylenes						< 0.00200	0.00200						
Total BTEX						0.00317	0.00150						
Inorganic Anions by EPA 300/300.1	Extracted:	Dec-12-16	17:25	Dec-13-16 1	14:18	Dec-13-16	14:18	Dec-13-16	4:18	Dec-13-16	4:18	Dec-13-16 1	14:18
	Analyzed:	Dec-12-16	21:05	Dec-13-16 1	17:32	Dec-13-16	17:53	Dec-13-16	8:00	Dec-13-16	8:07	Dec-13-16 1	18:28
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		60.4	5.00	175	5.00	3110	50.0	212	5.00	2040	25.0	<50.0	50.0
TPH By SW8015 Mod	Extracted:					Dec-14-16	07:00						
	Analyzed:					Dec-14-16	16:23						
	Units/RL:					mg/kg	RL						
C6-C10 Gasoline Range Hydrocarbons						<15.0	15.0						
C10-C28 Diesel Range Hydrocarbons						<15.0	15.0						
C28-C35 Oil Range Hydrocarbons						<15.0	15.0						
Total TPH						<15.0	15.0						

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 541643

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Ross Gulch 8-3 SWD



Project Id: 212C-MD-00681

Ike Tavarez

Project Location: Eddy Co, NM

Contact:

Date Received in Lab: Thu Dec-08-16 09:40 am

Report Date: 15-DEC-16 Project Manager: Kelsey Brooks

	Lab Id:	541643-01	13	541643-0	14			
Analysis Requested	Field Id:	Trench #4 2' Bac	kground	Trench #4 3' Bac	ekground			
Anaiysis Requesiea	Depth:	2 ft		3 ft				
	Matrix:	SOIL		SOIL				
	Sampled:	Dec-05-16 0	0:00	Dec-05-16 (00:00			
Inorganic Anions by EPA 300/300.1	Extracted:	Dec-13-16 1	4:18	Dec-13-16 1	4:18			
	Analyzed:	Dec-13-16 1	8:35	Dec-13-16 1	8:42			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		115	50.0	81.9	25.0			

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Knis Roah Kelsey Brooks



Flagging Criteria



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

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

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

DL Method Detection Limit

NC Non-Calculable

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

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 5332 Blackberry Drive, San Antonio TX 78238
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 (210) 509-3335

 1211 W Florida Ave, Midland, TX 79701
 (432) 563-1800
 (432) 563-1713

 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282
 (602) 437-0330



Form 2 - Surrogate Recoveries

Project Name: EOG - Ross Gulch 8-3 SWD

Work Orders: 541643,

Sample: 541643-001 / SMP

Project ID: 212C-MD-00681

Lab Batch #: 3005304

Matrix: Soil Batch:

Units: mg/	kg	Date Analyzed: 12/08/16 22:42	SU	SURROGATE RECOVERY STUDY							
	·	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
	Ana	alytes			[2]						
1,4-Difluorobenzene	•		0.0297	0.0300	99	80-120					
4-Bromofluorobenze	ene		0.0341	0.0300	114	80-120					

Lab Batch #: 3005304 Sample: 541643-005 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/08/16 22:59 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0313 0.0300 104 80-120 4-Bromofluorobenzene 0.0351 0.0300 117 80-120

Lab Batch #: 3005304 Sample: 541643-009 / SMP Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 12/08/16 23:14 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 3005750 Sample: 541643-001 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 12/14/16 15:38	SURROGATE RECOVERY STUDY									
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooc	ctane		90.9	100	91	70-135						
o-Terpheny	yl		43.8	50.0	88	70-135						

Lab Batch #: 3005750 **Sample:** 541643-005 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 12/14/16 16:01	SU	SURROGATE RECOVERY STUDY									
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1-Chlorooc	ctane	7 mary ees	94.0	99.9	94	70-135							
o-Terpheny	yl		45.9	50.0	92	70-135							

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: EOG - Ross Gulch 8-3 SWD

Work Orders: 541643,

Project ID: 212C-MD-00681

Lab Batch #: 3005750 Sample: 541643-009 / SMP

Matrix: Soil Batch: 1

Units: mg/kg Date Analyzed: 12/14/16	5 16:23 SI	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes						
1-Chlorooctane	91.6	99.7	92	70-135		
o-Terphenyl	43.5	49.9	87	70-135		

Lab Batch #: 3005304 **Sample:** 717020-1-BLK / BLK Batch: 1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 12/08/16 21:21	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B		X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluorobenzene			0.0300	0.0300	100	80-120			
4-Bromofluorobenzene			0.0319	0.0300	106	80-120			

Sample: 717305-1-BLK / BLK **Lab Batch #:** 3005750 Batch: 1 Matrix: Solid

Units: mg/kg **Date Analyzed:** 12/14/16 09:27 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.3	100	99	70-135	
o-Terphenyl	48.3	50.0	97	70-135	

Lab Batch #: 3005304 **Sample:** 717020-1-BKS / BKS Batch: 1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 12/08/16 19:12	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	1,4-Difluorobenzene			0.0300	102	80-120		
4-Bromofluorobenzene			0.0327	0.0300	109	80-120		

Batch: **Lab Batch #:** 3005750 **Sample:** 717305-1-BKS / BKS Matrix: Solid

Units:	mg/kg	Date Analyzed: 12/14/16 09:48	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	1-Chlorooctane			100	120	70-135		
o-Terphenyl			49.2	50.0	98	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: EOG - Ross Gulch 8-3 SWD

Work Orders: 541643,

Project ID: 212C-MD-00681

Lab Batch #: 3005304 Matrix: Solid **Sample:** 717020-1-BSD / BSD Batch: 1

Units:	mg/kg	Date Analyzed: 12/08/16 19:29	SU	RROGATE RI	ECOVERY S	STUDY	
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0314	0.0300	105	80-120	
4-Bromofluorobenzene		0.0321	0.0300	107	80-120		

Lab Batch #: 3005750 **Sample:** 717305-1-BSD / BSD Batch: 1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 12/14/16 10:10	SU	RROGATE RI	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	ctane		121	100	121	70-135	
o-Terpheny	o-Terphenyl			50.0	101	70-135	

Sample: 541624-011 S / MS **Lab Batch #:** 3005304 Batch: 1 Matrix: Soil

Date Analyzed: 12/08/16 20:16 **Units:** mg/kg SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

Lab Batch #: 3005750 **Sample:** 541854-065 S / MS Batch: 1 Matrix: Soil

Units:	mg/kg	Date Analyzed: 12/14/16 18:13	SU	RROGATE RI	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	ctane		122	99.8	122	70-135	
o-Terpheny	p-Terphenyl		50.7	49.9	102	70-135	

Batch: Lab Batch #: 3005304 Sample: 541624-011 SD / MSD Matrix: Soil

Units:	mg/kg	Date Analyzed: 12/08/16 20:33	SU	RROGATE RI	ECOVERY S	STUDY	
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene	1110119 000	0.0329	0.0300	110	80-120	
4-Bromoflu	4-Bromofluorobenzene		0.0338	0.0300	113	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: EOG - Ross Gulch 8-3 SWD

Work Orders: 541643, **Project ID:** 212C-MD-00681

Lab Batch #: 3005750 **Sample:** 541854-065 SD / MSD **Batch:** 1 **Matrix:** Soil

Units:	mg/kg	Date Analyzed: 12/14/16 18:34	SU	RROGATE RE	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		127	100	127	70-135	
o-Terphenyl	p-Terphenyl		53.6	50.0	107	70-135	

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Page 39 of 56

Project Name: EOG - Ross Gulch 8-3 SWD

Work Order #: 541643

Project ID: 212C-MD-00681

Analyst: ALJ

Date Prepared: 12/08/2016 **Batch #:** 1

Date Analyzed: 12/08/2016

Lab Batch ID: 3005304

Sample: 717020-1-BKS

Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[12]	[B]	[C]	[D]	[E]	Result [F]	[G]	, •	,,,,,	/ / / /	
Benzene	< 0.00149	0.0994	0.0774	78	0.0998	0.0767	77	1	70-130	35	
Toluene	< 0.00199	0.0994	0.0737	74	0.0998	0.0723	72	2	70-130	35	
Ethylbenzene	< 0.00199	0.0994	0.0787	79	0.0998	0.0771	77	2	71-129	35	
m,p-Xylenes	< 0.00199	0.199	0.159	80	0.200	0.155	78	3	70-135	35	
o-Xylene	< 0.00298	0.0994	0.0797	80	0.0998	0.0779	78	2	71-133	35	

SLU **Date Prepared:** 12/12/2016 **Date Analyzed:** 12/12/2016 **Analyst:**

Lab Batch ID: 3005469 **Batch #:** 1 Matrix: Solid **Sample:** 717126-1-BKS

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	< 5.00	250	258	103	250	262	105	2	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



mg/kg

Units:

BS / BSD Recoveries

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY



Page 40 of 56

Project Name: EOG - Ross Gulch 8-3 SWD

Project ID: 212C-MD-00681 **Work Order #:** 541643

Analyst: SLU Date Prepared: 12/13/2016 **Date Analyzed:** 12/13/2016

Lab Batch ID: 3005600 Sample: 717181-1-BKS **Batch #:** 1 Matrix: Solid

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]						
Chloride	<5.00	250	266	106	250	264	106	1	90-110	20			

ARM **Date Prepared:** 12/14/2016 **Date Analyzed:** 12/14/2016 **Analyst:**

Lab Batch ID: 3005750 **Batch #:** 1 Matrix: Solid **Sample:** 717305-1-BKS

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY TPH By SW8015 Mod Blank Spike Blank Blank Blank Blk. Spk Control Control Spike Spike Dup. RPD Limits Sample Result Added Spike Spike Limits Flag Added %R **Duplicate** %R % %R %RPD [A] Result [B] [C] [D] Result [F] [G] $[\mathbf{E}]$ **Analytes** C6-C10 Gasoline Range Hydrocarbons <15.0 1000 864 1000 874 87 70-135 35 86 1 C10-C28 Diesel Range Hydrocarbons <15.0 1000 926 93 1000 958 3 70-135 35



Form 3 - MS / MSD Recoveries



Page 41 of 56

Project Name: EOG - Ross Gulch 8-3 SWD

Work Order #:

541643 3005304

QC- Sample ID: 541624-011 S

Batch #:

Matrix: Soil

Project ID: 212C-MD-00681

Lab Batch ID: Date Analyzed:

12/08/2016

Date Prepared: 12/08/2016

Analyst: ALJ

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00151	0.100	0.0813	81	0.100	0.0752	75	8	70-130	35	
Toluene	< 0.00201	0.100	0.0772	77	0.100	0.0709	71	9	70-130	35	
Ethylbenzene	0.00204	0.100	0.0821	80	0.100	0.0759	74	8	71-129	35	
m,p-Xylenes	< 0.00201	0.201	0.163	81	0.200	0.150	75	8	70-135	35	
o-Xylene	< 0.00301	0.100	0.0810	81	0.100	0.0756	76	7	71-133	35	

Lab Batch ID:

3005469

QC- Sample ID: 541513-034 S

Batch #:

Matrix: Soil

Date Analyzed:

12/12/2016

Date Prepared: 12/12/2016

Analyst: SLU

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	14.8	250	268	101	250	256	96	5	90-110	20	

Lab Batch ID:

3005469

QC- Sample ID: 541522-001 S

Batch #:

Matrix: Soil

Date Analyzed:

12/12/2016

Date Prepared: 12/12/2016

Analyst: SLU

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	735	765	1460	95	765	1530	104	5	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Page 42 of 56

Project Name: EOG - Ross Gulch 8-3 SWD

Work Order #: 541643

541643 3005600

QC- Sample ID: 541643-008 S

Batch #:

Matrix: Soil

Project ID: 212C-MD-00681

Lab Batch ID: Date Analyzed:

12/13/2016

Date Prepared: 12/13/2016

Analyst: SLU

Reporting Units:

Date Analyzed:

mg/kg

Z010 Analyst: SEC

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	175	250	428	101	250	416	96	3	90-110	20	

Lab Batch ID: 3005600 **QC- Sample ID:** 541731-001 S

Batch #: 1 Matrix: Soil

12/13/2016 **Date Prepar**

Analyst: SLU

Reporting Units: mg/kg

Date Prepared: 12/13/2016 **A**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	20.5	250	265	98	250	270	100	2	90-110	20	

Lab Batch ID:

3005750

QC- Sample ID: 541854-065 S

Batch #:

Matrix: Soil

Date Analyzed:

12/14/2016

Date Prepared: 12/14/2016

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

1

TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]	Kesuit [F]	[G]	70	70K	/0KFD	
C6-C10 Gasoline Range Hydrocarbons	<15.0	998	941	94	1000	1000	100	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	998	1010	101	1000	1030	103	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

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1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946 SITE MANAGER: TAINERS PRESERVATIVE METHOD TX1005 (Ext. to C35) As Ba Cd Cr Pb Hg Se es 8260/624 8270/625
1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946 SITE MANAGER: PROJECT NAME: OLIVERS NTAINERS METHOD AS Ba Cd Cr Pb Hg Se METHOD AS Ba Cd Vr Pd Hg Se
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TRUCK # 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946 SITE MANAGER: Widland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946 SITE MANAGER: Willend, Texas 79705 AMPLEI DENTIFICATION PRESERVATIVE PRESERVATIVE PRESERVATIVE PRESERVATIVE METHOD WETHOD TYPH 8015 MOD. TX1005 (Ext. to C35) PAH 8270 RCRA Metals Ag As Ba Cd Cr Pb Hg Se TCLP Metals Ag As Ba Cd Vr Pd Hg Se TCLP Volatiles TCLP Semi Volatiles RCI GC.MS Vol. 8240/8260/624 GC.MS Semi. Vol. 8270/625 PCB's 8080/608 Pest. 808/608 Glamma Spec. Alpha Beta (Air) PLM (Asbestos)
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Ploa Temp: IR ID:R-8 CF:+ 0.1 2 2 2 Corrected Temp:	ADDRESS: CONTACT: SAMPLE CONDITION WHEN RECEIVED:	re)	RELINGUISHED BY: (Signature) RELINGUISHED BY: (Signature)		4			41/5,	TIME	AME: FOS			
Ü –	PHONE: DATE:	Date:	Date: 12-5-18 RECEIVED BY: (Signature) Time: 940 RECEIVED BY: (Signature)		Wherein 7 3 Nache grant	Town 4 2 Touch sund	Tracky 0-1 Encksparel	100 2.5°	GRAB SAMPLE IDENTIFICATION	2	ig Spring St. Texas 79705 59 • Fax (432) 68	TETRA TECH	request of Chain of Custoc
1 Tech - Project Manager retai	TIME:	Time: 940	Date: Time: Date:		- Z	- 2 X	- ~ ×	- e	NUMBER OF CON FILTERED (Y/N) HCL HNO3 ICE NONE	PRESERVATIVE METHOD			Custody Record
 Accounting receives Gold c 	The Javes Talles	REDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:	SAMPLE SHIPPED BY (Print & Initial) SAMPLE SHIPPED BY (Print & Initial) Date: Time:		-6	*			BTEX 8021B TPH 8015 MOI PAH 8270 RCRA Metals Ag TCLP Metals Ag TCLP Volatiles TCLP Semi Volatile RCI GC.MS Vol. 8240/8 GC.MS Semi. Vol. 8240/8 PCB's 8080/608 Pest. 808/608 Chloride Gamma Spec. Alpha Beta (Air) PLM (Asbestos) Major Anions/Catio	As Ba Cd V es 3260/624 8270/625	(Ext. to C35) Or Pb Hg Se or Pd Hg Se	ANALYSIS REQUEST (Circle or Specify Method No.)	PAGE: 2 OF:



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 12/08/2016 09:40:00 AM Air and I

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Work Order #: 541643

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		2.3
#2 *Shipping container in good condition	?	N/A
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when reline	quished/ received?	Yes
#12 Chain of Custody agrees with sample	le label(s)?	Yes
#13 Container label(s) legible and intact	?	Yes
#14 Sample matrix/ properties agree witl	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?)	Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicat	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		N/A
#21 VOC samples have zero headspace	(less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HI samples for the analysis of HEM or HEM analysts.		N/A
#23 >10 for all samples preserved with N	NaAsO2+NaOH, ZnAc+NaOH?	N/A
* Must be completed for after-hours de	elivery of samples prior to placing in	the refrigerator
Analyst:	PH Device/Lot#:	
	Description of	
Checklist completed by:	Jessica Kramer	Date: 12/08/2016
Checklist reviewed by:	Mmv Moah Kelsey Brooks	Date: 12/08/2016

Analytical Report 543108

for Tetra Tech- Midland

Project Manager: Ike Tavarez
EOG - Ross Gulch 8-3 SWD
212C-MD-00681
09-JAN-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





09-JAN-17

Project Manager: **Ike Tavarez Tetra Tech- Midland**4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): 543108

EOG - Ross Gulch 8-3 SWD Project Address: Lea Co NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 543108. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 543108 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Kelsey Brooks

Knus Roah

Project Manager

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Sample Cross Reference 543108



Tetra Tech- Midland, Midland, TX

EOG - Ross Gulch 8-3 SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
2-3 AH1	S	12-28-16 00:00	2 - 3 ft	543108-003
0-1 AH1	S	12-28-16 00:00	0 - 1 ft	Not Analyzed
1-2 AH1	S	12-28-16 00:00	1 - 2 ft	Not Analyzed



CASE NARRATIVE



Client Name: Tetra Tech- Midland Project Name: EOG - Ross Gulch 8-3 SWD

 Project ID:
 212C-MD-00681
 Report Date:
 09-JAN-17

 Work Order Number(s):
 543108
 Date Received:
 12/30/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 543108

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Ross Gulch 8-3 SWD



Project Id: 212C-MD-00681 **Contact:** Ike Tavarez

Project Location: Lea Co NM Date Received in Lab: Fri Dec-30-16 12:00 pm

Report Date: 09-JAN-17 Project Manager: Kelsey Brooks

			I		
	Lab Id:	543108-003			
Analysis Requested	Field Id:	2-3 AH1			
Analysis Requesieu	Depth:	2-3 ft			
	Matrix:	SOIL			
	Sampled:	Dec-28-16 00:00			
Inorganic Anions by EPA 300/300.1	Extracted:	Jan-05-17 17:00			
	Analyzed:	Jan-05-17 23:56			
	Units/RL:	mg/kg RL			
Chloride		1060 25.0			

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Knis Roah Kelsey Brooks



Flagging Criteria



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

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

DL Method Detection Limit

NC Non-Calculable

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

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	Phone	Fax
4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



BS / BSD Recoveries



Page 52 of 56

Project Name: EOG - Ross Gulch 8-3 SWD

Work Order #: 543108 Project ID: 212C-MD-00681

Analyst: MNR Date Prepared: 01/05/2017 Date Analyzed: 01/05/2017

 Lab Batch ID: 3007054
 Sample: 718136-1-BKS
 Batch #: 1
 Matrix: Solid

Uni	ts: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
	Chloride	< 5.00	250	245	98	250	241	96	2	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

TNI LABORATORA Page 53 of 56

Project Name: EOG - Ross Gulch 8-3 SWD

Work Order #: 543108

Project ID: 212C-MD-00681

Lab Batch ID:

3007054

QC- Sample ID: 542888-013 S

Batch #:

Matrix: Soil

Date Analyzed:

01/05/2017

Date Prepared: 01/05/2017

Analyst: MNR

Reporting Units:

Date Analyzed:

mg/kg

Alialyst: Wilvi

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	< 5.00	250	251	100	250	263	105	5	90-110	20	

Lab Batch ID: 3007054 **QC- Sample ID:** 543111-005 S **Batch #:** 1 **Matrix:** Soil

01/06/2017 **Date Prepared:** 01/05/2017 **Analyst:** MNR

Reporting Units: mg/kg MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	1300	250	1560	104	250	1560	104	0	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

d Temp: 0.4°C Please till out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech -	PHONE:	ADDRESS: CITY: 17 ZIP: ZIP:	XCOLO BECEIVED BY (Singature)	Date: RECEIVED BY: (Signature)	Time:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	RELINOUSHED SX: (Signature) Date: 10 20 16 RECEIVED BX: (Signature) Date:				16-80 mg - 3 AH/	1000 1-2 PH 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NUMBER OF CONTAI NUMBER OF CONTAI FILTERED (YN) HCL	SITE MANAGER: TOG SITE MANAGER: WERE W	1910 N. Big Spring Midland, Texas 797 (432) 682-4559 • Fax (433	TETRA TECH	A lary and hequest of Chain of Custody Reco	
ect Manager retain						12.00					×	×	7	BTEX 8021B	PRESERVATIVE METHOD			cord	
Project Manager retains Pink copy - Accounting receives Gold copy.		the lawrez	TETRA TECH CONTACT PERSON:	HAND DELIVERED UPS	SAMPLE SHIPPED BY: (Circle)	Says Leo Br. Print & Initial								TPH 8015 MOD. PAH 8270 RCRA Metals Ag As TCLP Metals Ag As TCLP Volatiles TCLP Semi Volatiles RCI GC.MS Vol. 8240/826 GC.MS Semi. Vol. 827 PCB's 8080/608 Pest. 808/608	Ba Cd	(Ext. to C35) Cr Pb Hg Se Vr Pd Hg Se	ANALYSIS REQUEST (Circle or Specify Method No.)	PAGE:	
	Authorized: Yes No		Results by:	OTHER:	AIRBILL #:	Date: 10-0076	3				*			Gamma Spec. Alpha Beta (Air) PLM (Asbestos) Major Anions/Cations	pH, TDS	3	QUEST Wethod No.)	[OF: [543108



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

2/20/2016 12:00:00 DM Air and Metal samp

Date/ Time Received: 12/30/2016 12:00:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 543108 Temperature Measuring device used : R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.4
#2 *Shipping container in good condition	?	N/A
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when reline	quished/ received?	Yes
#12 Chain of Custody agrees with sample	e label(s)?	Yes
#13 Container label(s) legible and intact	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?		Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicat	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		N/A
#21 VOC samples have zero headspace	(less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HN samples for the analysis of HEM or HEM-		N/A
analysts. #23 >10 for all samples preserved with N	laAsO2+NaOH, ZnAc+NaOH?	N/A
* Must be completed for after-hours de	livery of samples prior to placing ir	the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by: Checklist reviewed by:	Jessica Kramer N. M.	Date: 12/30/2016
Checklist reviewed by:	Mmy Moah Kelsey Brooks	Date: 12/30/2016

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 233528

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	233528
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimor	None	7/11/2023