

January 13, 2022

Bradford Billings Hydrologist/E.Spec.A District 2 Artesia 1220 South St. Francis Drive Oil Conservation Division Santa Fe, NM 87505

Re: Release Characterization and Closure Request ConocoPhillips Heritage Concho GJ West Coop Trunkline Releases Unit Letter B, Section 28, Township 17 South, Range 29 East Eddy County, New Mexico Incident ID# NJMW1228433415

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess two Heritage Concho releases and subsequent remedial actions taken at the GJ West Coop Trunkline (Associated API Nos. 30-015-25492 and 30-015-03163). The release footprints are located in Public Land Survey System (PLSS) Unit Letter B, Section 28, Township 17 South, Range 29 East, in Eddy County, New Mexico (Site). The approximate release point for both incidents occurred at coordinates 32.811750°, -104.077340°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) the C-141 Initial Report, the first release at the GJ West Coop trunkline was discovered on September 1, 2012. A second release was discovered in the same vicinity on September 20, 2012, according to the second C-141 Initial Report. The C-141s for both the September 1 and September 20 releases report that the cause was due to a hole developed from corrosion of the line in the GJ West Coop Unit #74 and #125 trunkline. During the first release, approximately 22 barrels (bbls) of produced water escaped, of which approximately 20 bbls of produced water were reported recovered. During the second release, approximately 8 barrels (bbls) of produced water reported recovered.

The NMOCD approved both initial C-141s, the first on October 10, 2012 and the second on October 25, 2012. The releases were given the Incident IDs NJMW1228433415 and NJMW1228952965 for the September 1 and September 20, 2012 releases, respectively. The initial C-141 forms are included in Appendix A.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, stream bodies, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of medium karst potential.

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ConocoPhillips

Release Characterization and Closure Request

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately 1/2 mile (800 meters) of the site. According to data from one (1) water well listed in the NMOSE database within approximately 0.93 miles (1,500 meters) of the site, the depth to groundwater is 76 feet below ground surface (bgs). The site characterization data are presented in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

Additionally, in accordance with the NMOCD guidance Procedures for Implementation of the Spill Rule (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
ТРН	100 mg/kg
BTEX	50 mg/kg

INITIAL RESPONSE ACTIVITIES AND CLOSURE REQUEST

Following each release, a temporary clamp was installed on the trunkline and all recoverable fluids were picked up with a vacuum truck. According to information provided by Heritage Concho, the September 1 and September 20 releases occurred from a location on the trunkline that coincided with six (6) incidents that occurred between May 2010 and October 2012 in an area of pasture between the GJ West Coop Unit #194 (API No. 30-015-36285) and the GJ West Coop Unit #170 (API No. 30-015-35777). This information is supported by the location information provided in the initial C-141s for both September 2012 release incidents. A Closure Report dated December 11, 2014 was prepared by Tetra Tech on behalf of Concho for the six (6) releases, detailing the site assessment and remediation actions taken. The September 1 and 20, 2012 releases were inadvertently omitted from this report.

The release area was initially assessed by Tetra Tech on May 24, 2010 and then again on December 6, 2010. Based on the results of the assessment and directives from NMOCD, Tetra Tech supervised remediation activities at the overlapping release site on October 28, 2014. As proposed in a previously approved work plan, a portion of the release extent was excavated to a depth of approximately 3-4 feet bgs and capped with a 40-mil plastic liner. Due to safety concerns, the remainder of the release extent could not be excavated due to multiple surface lines in the area.

Following excavation activities and the placement of the liner, the area was backfilled with clean material to grade. Approximately 2,300 cubic yards of material were hauled offside for appropriate disposal. The remaining impacted soil was deferred due to access and safety issues.

Release Characterization and Closure Request January 13, 2022

The Closure Report was approved by NMOCD in March 2015 and closure granted for the six (6) releases referenced in the report:

- NKMW1107641950 / 2RP-647 (Release date: 5/6/2010)
- NMLB1030938472 / 2RP-462 (Release date: 9/17/2010)
- nMLB1210949851 / 2RP-1097 (Release date: 3/28/2012)
- nJMW1217338587 / 2RP-1182 (Release date: 6/6/2012)
- nJMW1219552251 / 2RP-1227 (Release date: 7/9/2012)
- nJMW1231139384 / 2RP-1387 (Release date: 10/9/2012)

Approval for the six (6) releases listed above are on file with the NMOCD Permitting online system. A copy of the Closure Report, which includes detailed site diagrams, analytical data, and photographic documentation of the excavation and liner prior to backfilling, is included as Appendix C.

VISUAL SITE INSPECTION SUMMARY

Due to the lack of documentation regarding the September 1 and 20, 2012 releases, Tetra Tech conducted a Visual Site Inspection of the remediated release site on December 23, 2021 to assess current conditions. Since the exact release extents of the September 2012 releases are unknown, the boundaries of the entire release areas indicated in the Closure Report in Appendix C were inspected for stained soils and vegetative growth, as shown on Figure 3.

During the inspection, potential evidence of soils with minor staining were observed in areas that correspond to areas that were approved for deferral in the December 11, 2014 Closure Report. Established vegetation was observed throughout the majority of the inspection area. Photographic documentation of the Visual Site Inspection is included as Appendix D.

CONCLUSION

Based on the results of the visual site inspection, in conjunction with the review of the previously-approved Closure Report for six (6) additional release incidents in the former release area, ConocoPhillips respectfully requests closure for the two September 2012 releases addressed in this report. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning this request, please call me at (512) 739-7874.

Sincerely, **Tetra Tech, Inc.**

Samantha K. Abbott, P.G. Project Manager

cc: Mr. Ike Tavarez, RMR – ConocoPhillips Mr. Charles Beauvais, BU – ConocoPhillips Release Characterization and Closure Request January 13, 2022

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map Figure 2 – Topographic Map Figure 3 – Visual Inspection Area

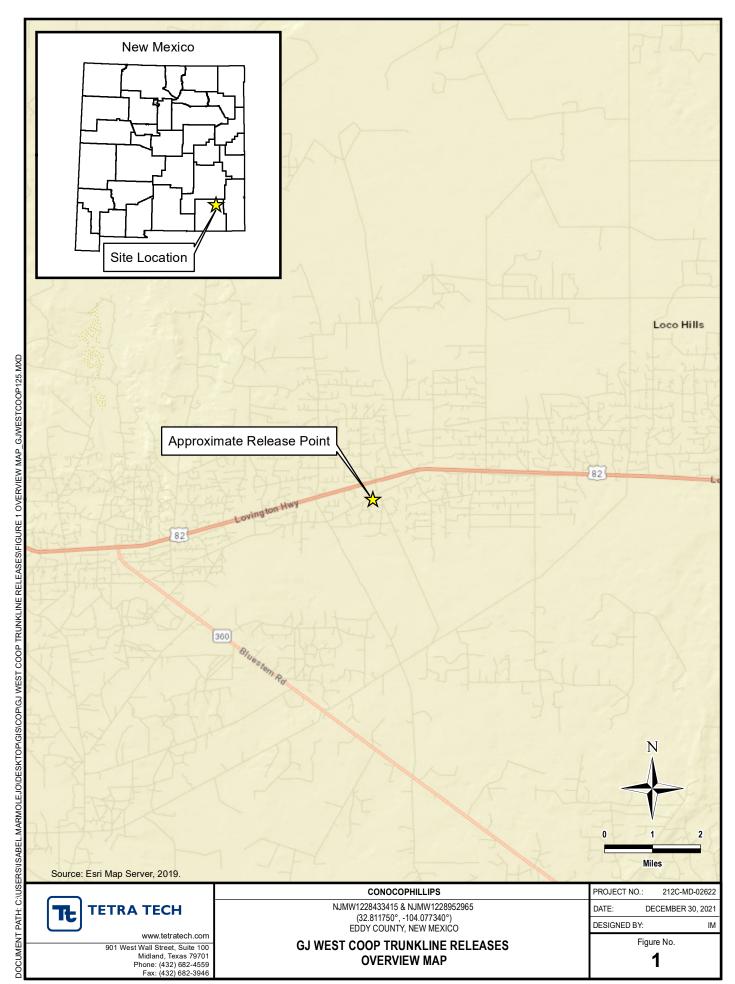
Appendices:

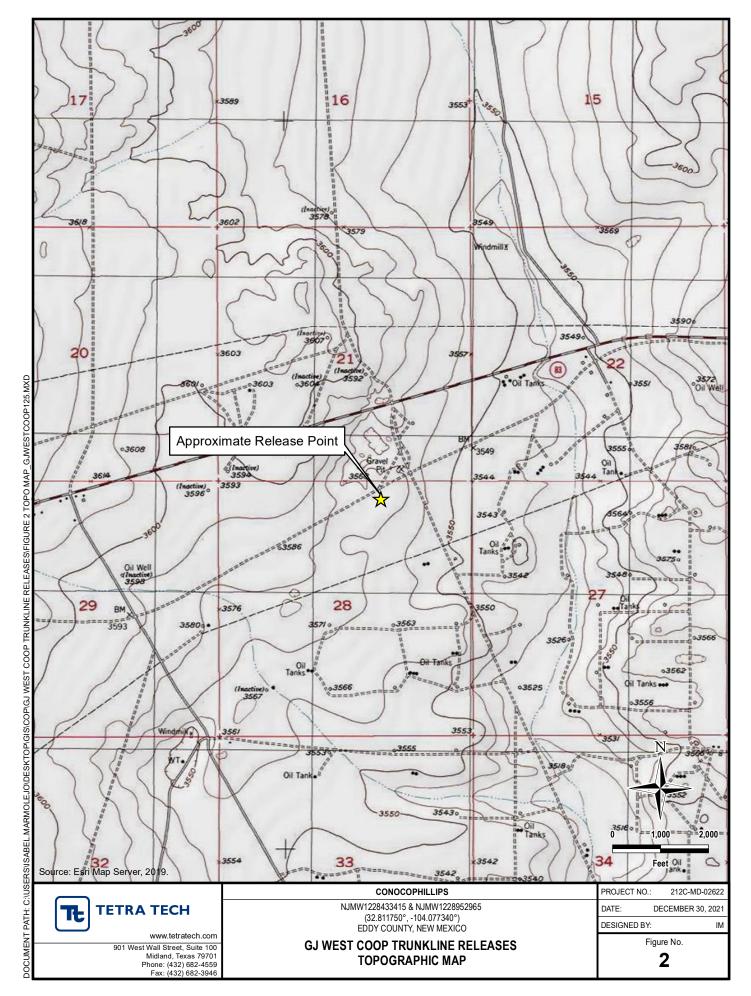
Appendix A – C-141 Forms Appendix B – Site Characterization Data Appendix C – Closure Report (December 11, 2014) Appendix D – Photographic Documentation

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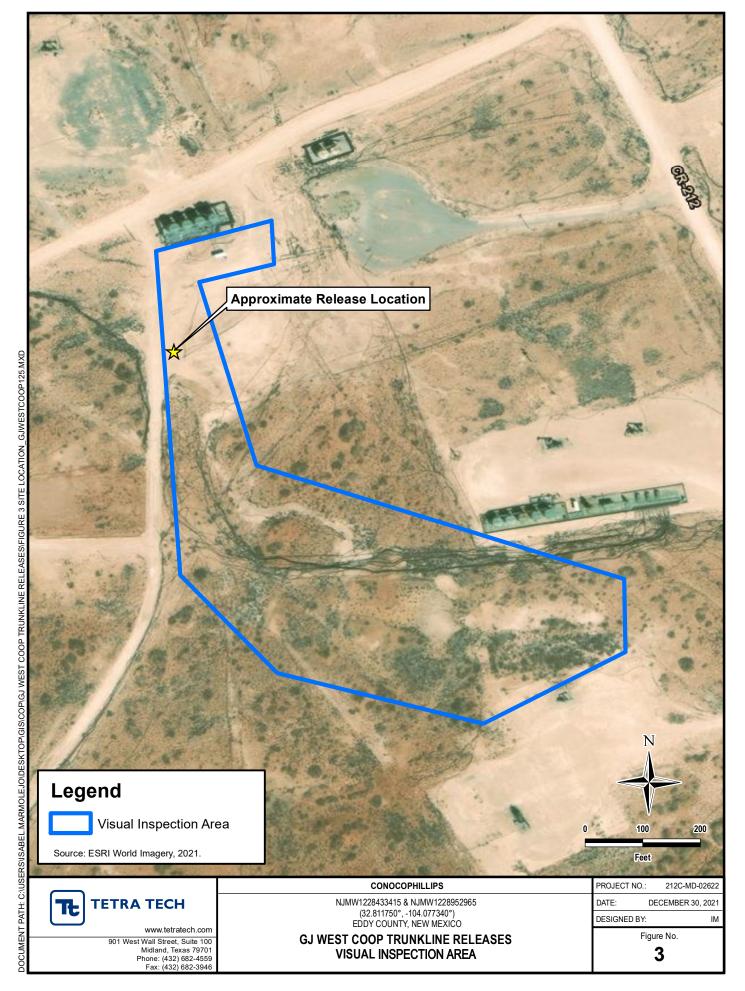
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FIGURES





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APPENDIX A C-141 Forms

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		RECEI	VED			
District I State	e of New Mexico					
625 N. French Dr., Hobbs, NM 88240 District II Energy Mine	rals and Natural Resources	SEP 13	2012 Form C-141 Revised October 10, 2003			
301 W. Grand Avenue, Artesia, NM 88210 District III Oil Co	nservation Division	NMOCD AF	TENIACopies to appropriate District Office in accordance			
000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S	outh St. Francis Dr.		with Rule 116 on back			
220 S. St. Francis Dr., Santa Fe, NM 87505 San	ta Fe, NM 87505		side of form			
Release Notifica	tion and Corrective A	Action				
NMW1228433415	OPERATOR		al Report 🔲 Final Repor			
Name of CompanyCOG OPERATING LLC229/3Address550 W. Texas, Suite 100, Midland, TX 79701		Pat Ellis 2-230-0077				
Facility Name GJ West Coop Trunkline		runkline				
Surface Owner State Mineral Ow	mcr		No. (API#) 30-015-25492 ed into trunkline 30-015-03163			
LOCAT	ION OF RELEASE					
Unit Letter Section Township Range Section to 178 29E Feet from the 1	North/South Line Feet from the	East/West Line	County Eddy			
Latitude 32 48	.512 Longitude 104 04.600)				
NATU	RE OF RELEASE					
Type of Release Produced water w/ skim oil	Volume of Release 22bbls		Recovered 20bbls			
Source of Release Trunkline	Date and Hour of Occurren 09/01/2012	Date and Hour of OccurrenceDate and Hour of Discovery09/01/201209/01/20125:30 p m.				
Was Immediate Notice Given?	If YES, To Whom?		•			
By Whom?	Date and Hour					
Was a Watercourse Reached?	If YES, Volume Impacting	the Watercourse.				
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Taken.*						
Corrosion caused a hole to develop in our GJ West Coop Unit #74 a to replace it.	nd 125 trunkline. A temporary clan	np has been added to	o this trunkline until we are able			
Describe Area Affected and Cleanup Action Taken *						
Initially 22bbls were released from the corroded trunkline and we w this trunkline until we are able to replace it. Tetra Tech will sample present a remediation work plan to the NMOCD for approval prior t	the spill site area to delineate any p	ossible contamination	porary clamp has been added to on from the release and we will			
I hereby certify that the information given above is true and complet regulations all operators are required to report and/or file certain reli- public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and ren or the environment. In addition, NMOCD acceptance of a C-141 re federal, state, or local laws and/or regulations.	ease notifications and perform corre- by the NMOCD marked as "Final nediate contamination that pose a th port does not relieve the operator o	ective actions for rel Report" does not rel hreat to ground wate f responsibility for c	leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other			
	OIL CON	NSERVATION	DIVISION			
Signature: Josh Russo	Approved by District Superv	isor: Signed By_	Mile Branchen			
Title: HSE Coordinator	Approval Date: 1 0 20	······				
E-mail Address: jrusso@conchoresources.com	Conditions of Approval:		Attached			
Date: 09/13/2012 Phone: 432-212-2399						
Attach Additional Sheets If Necessary	Remediation per OCE Guidelines. SUBMIT REM PROPOSAL NOT LATER TI Notember 1(2, 2)	EDIATION	ZRP-1307			

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Received by OCD: 1/14/2022 10:55:49 AM Form C-141 State of New Mexico

Oil Conservation Division

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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps

Laboratory data including chain of custody

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

Received by OCD: 1/14/2 Form C-141 Page 4	022 10:55:49 AM State of New Mexico Oil Conservation Division	Page 12 of 111Incident IDDistrict RPFacility IDApplication ID
regulations all operators ar public health or the environ failed to adequately investi	re required to report and/or file certain release notificar nment. The acceptance of a C-141 report by the OCD igate and remediate contamination that pose a threat to	to f my knowledge and understand that pursuant to OCD rules and tions and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have o groundwater, surface water, human health or the environment. In ponsibility for compliance with any other federal, state, or local laws
Printed Name:	Ti	tle:
Signature:	D:	ate:
email:	Te	elephone:
OCD Only		
		Date:

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Oil Conservation Division

Incident ID		
District RP		
Facility ID		
Application ID		

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Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following in	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O Printed Name.	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title:
Signature: 1475	Date:
	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Bradford Billings	Date:
Printed Name:	Title:

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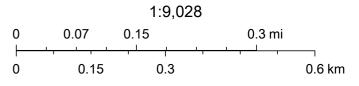
APPENDIX B Site Characterization Data

OCD Waterbodies

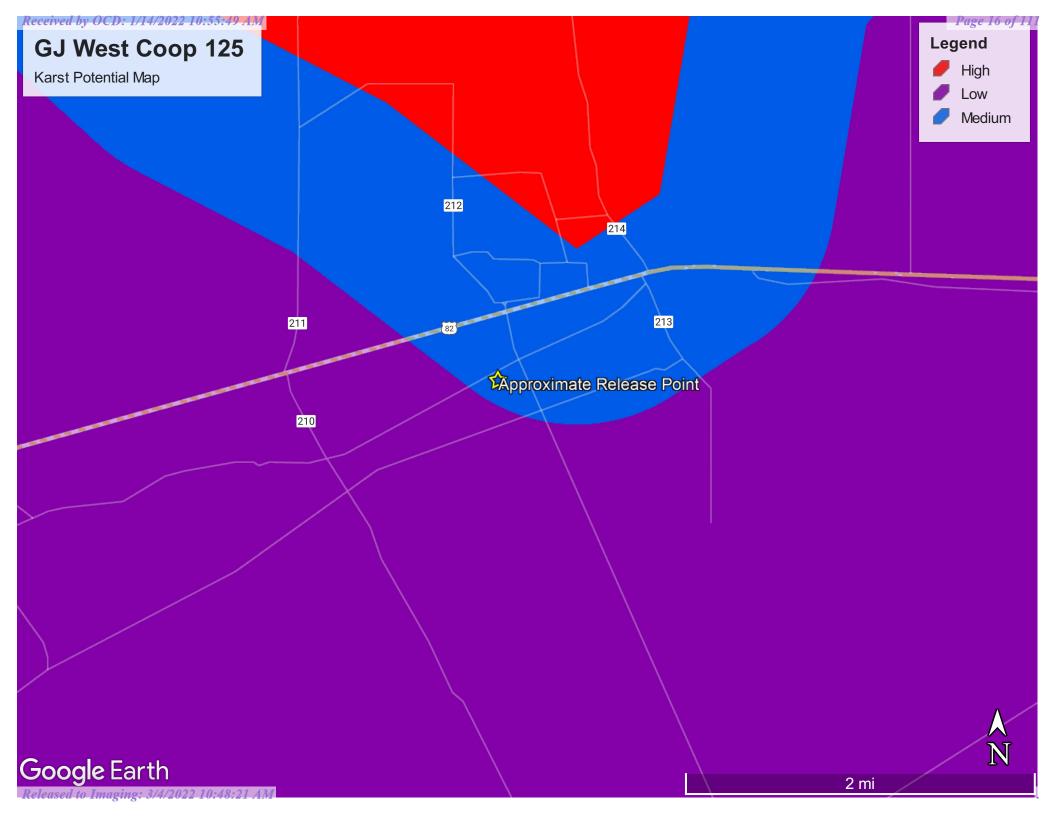


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- OSE Water-bodies
- PLJV Probable Playas
- OSE Streams



Esri, HERE, Garmin, iPC, Maxar





(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)	、 1	are 1=NW 2=NE 3 are smallest to larg	,	D83 UTM in me	ters)	(In feet)
POD Number	POD Sub- Code basin Cou	Q Q Q nty 64 16 4		х	Y	•	th Depth Water ell Water Column
RA 11807 POD1	RA EI	0 1 2 3	22 17S 29E	587360	3631585 🌍	1262 13	31 76 55
					Averag	ge Depth to Wat	er: 76 feet
						Minimum Dep	th: 76 feet
						Maximum Dep	th: 76 feet
Pecord Count: 1							

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 586375.18

Northing (Y): 3630794.73

Radius: 1500

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 Closure Report (December 11, 2014)

SITE INFORMATION

111 fo 61 -

Report Type: Closure Report

	ormation:		Verse in	sure Repor	
Site:	ormation	GJ West Coop S	SWD		
<u>Company:</u>		COG Operating			
Section, Towns	hin and Range	Unit B	Sec 23	T17S	R29E
Lease Number:			1000 20	11110	
County:		Eddy County			
GPS:			32.81175° N		104.07734° W
Surface Owner		State			
Mineral Owner:					
Directions:		From the intersecti travel 0.2 miles, tu			5 miles down Hwy 82, turn left on CR 212
Release Data:		Spill One		Spill Two	Spill Three
Date Released:		5/6/2010		3/28/2012	
Type Release:		Produced Water		Produced Water	
Source of Conta	mination:	Transfrer Pump		Injection Line	Manifold Coupling
Fluid Released:		100 bbls		100 bbls	50 bbls
Fluids Recovere	d:	10 bbls		50 bbls	25 bbls
Release Data:		Spill Four		Spill Five	Spill Six
Date Released:		6/6/2012		7/9/2012	10/9/2012
Type Release:		Produced Water		Produced Water	
Source of Conta	mination:	Hole in Casing		Trunkline	Steel Line
Fluid Released:	al.	15 bbls		10 bbls	7 bbls
Fluids Recovere		12 bbls		2 bbls	5 bbls
Official Commu		1.070		and the second second	
Name:	Robert McNeil				lke Tavarez
Company:	COG Operating, LL	C	1		Tetra Tech
Address:	One Concho Center	r	r	8663.00 AK.243	4000 N. Big Spring St
P.O. Box	600 W. Illinois Ave.				Ste 401
City:	Midland, Texas 797	01			Midland, Texas 79705
Phone number:	(432) 686-3023				(432)687-8110
Fax:	(432) 684-7137		<u> </u>		
Email:	rmcneil@conchor				ike.tavarez@tetratech.com
Ranking Criteria		23001003.0011			
		and the second			
Depth to Ground	water:		Ranking Scor		Site Data
<50 ft			20		n 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997
50-99 ft		-	10		
>100 ft.			0		0
WellHead Protect	tion:		Ranking Scor		Site Data
	000 ft., Private <200 ft		Pranking Scor		Jite Dala
	000 ft., Private >200 ft		0		0
valer Source >1,					
	Water		Ranking Scor		Site Data
Surface Body of	mater.		20		244
Surface Body of <200 ft.					
S urface Body of <200 ft. 200 ft - 1,000 ft.			10		0
Surface Body of 200 ft. 200 ft - 1,000 ft. 1,000 ft.			10 0		0
Surface Body of 200 ft. 200 ft - 1,000 ft. 1,000 ft.	Total Ranking Scor	e:	10		0
Surface Body of 200 ft. 200 ft - 1,000 ft. 1,000 ft.			10 0 0	(ma/ka)	0
Surface Body of 200 ft. 200 ft - 1,000 ft. 1,000 ft.		Accepta	10 0 0 ble Soil RRAL		0
Surface Body of 200 ft. 200 ft - 1,000 ft. 1,000 ft.			10 0 0	(mg/kg) TPH 5,000	0



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December 11, 2014

Mr. Mike Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 1301 West Grand Avenue Artesia, New Mexico 88210

Re: Closure Request for the COG Operating LLC., GJ West Coop, Unit B, Section 28, Township 17 South, Range 29 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the GJ West Coop located in Unit B, Section 28, Township 17 South, Range 31 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.81169°, W 104.07727°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Reports, COG had six (6) produced water spills in the same area between May 2010 and October 2012. The spills are summarized below. All of the initial C-141 forms are enclosed in Appendix A.

Spill 1

The first release was discovered on May 6, 2010, and released approximately one hundred (100) barrels of produced water from a transfer pump. To alleviate the problem, COG personnel repaired the transfer pump. Ten (10) barrels of standing fluids were recovered. The spill initiated on the pad and traveled south parallel to the lease road for 230' by 25' wide.

Spill 2

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The second release was discovered on September 17, 2010, and released approximately one hundred (100) barrels of produced water from the nipple on an injection line. To alleviate the problem, COG personnel replaced the old fittings with Page 21 of 11.

new fittings. Fifty (50) barrels of standing fluids were recovered. The spill initiated on the pad and traveled south parallel to the lease road for 230' by 25' wide, it continued off the pad into the pasture for 610' by 30' which grew to 150' wide.

Spill 3

The third release was discovered on March 28, 2012 and released approximately fifty (50) bbls of produced water from a failed injection manifold coupling. To alleviate the problem the injection manifold was replaced. Twenty five (25) bbls of produced water were recovered. The spill traveled into the pasture and pooled in an area approximately 15' x 50' in size.

Spill 4

The fourth release was discovered on June 6, 2012 and released approximately fifteen (15) bbls of produced water from the casing, which developed a hole. To alleviate the problem a clamp was placed on the casing until it was repaired. Twelve (12) bbls of standing fluid were recovered.

Spill 5

The fifth release was discovered on July 9, 2012 and released approximately ten (10) bbls of produced water with some skim oil from a corroded trunk line. To alleviate the problem the steel flowline was replaced. Two (2) bbls of standing fluids were recovered.

Spill 6

The sixth release was discovered on October 9, 2012 and released approximately seven (7) bbls of produced water with some skim oil from a corroded steel line. To alleviate the problem a temporary clamp was installed on the line until it was replaced.

Groundwater

No water wells were listed within Section 21. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 150' below surface. The groundwater information is shown in Appendix B.

Regulatory

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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

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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

Auger holes

On May 24, 2010, Tetra Tech personnel inspected and sampled the first spill area. A total of four (4) auger holes (AH-1 through AH-4) were installed using a stainless steel hand auger to assess the impacted soils. On September 4, 2010, Tetra Tech personnel inspected and sampled the second spill area. A total of six (6) auger holes (AH-1 through AH-6) were installed using a stainless steel hand auger to assess the impacted 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 auger hole locations are shown on Figure 3.

All of the samples were below the RRAL's for BTEX and TPH, except for the area of AH-2, AH-4 and AH-6. Theses area showed shallow TPH impact above the RRAL, but were vertically defined. Elevated chloride concentrations were detected at AH-1 and AH-4 for the 1st spill and AH-1, AH-3 and AH-5 for the 2nd spill. In order to define extents, boreholes were installed to assess the impacted areas.

Boreholes

On December 6, 2010, Tetra Tech personnel were onsite to supervise the installation of the boreholes to evaluate the impacted areas and install bore holes. Utilizing an air rotary drilling rig, Tetra Tech personnel supervised and collected samples. A total of twelve (12) bore holes (BH-1 through BH-12) were installed. The borehole results are summarized in Table 1. Due to numerous surface flow lines in the area, the drilling rig did have access issue at some the impacted areas.

Referring to Table 1, borehole (BH-11) showed a decline of 15,600 mg/kg (10') to 2,230 mg/kg (20'). BH-10 showed a decline of 9,310 mg/kg (0-1') to 2,660 mg/kg at 25' and BH-7 showed a decline of 9,200 mg/kg to 4,580 mg/kg at 15'. Additionally, elevated chloride concentrations for BH-8 showed a significant decline from 10,800 mg/kg (20') to 3,490 mg/kg (25'), BH-6 showed a decline of 9,640 mg/kg (15') to 3,100 mg/kg at 20', BH-4 showed a decline of 11,800 mg/kg (15') to 3,000 at 25', BH-3 showed a decline of 8,340 (7') mg/kg to 3,510 mg/kg.

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Onsite Meeting

On May 16, 2014, COG and Tetra Tech met with Mike Bratcher with the NMOCD onsite to discuss the spills and access issues at the site. Multiple releases had occurred at the site that migrated and overlapped south into the pasture where the area is congested with multiple surface flow lines.

As discussed in the field, proper excavation cannot be completed at the site due to all the surface flow lines in the area. Due to safety concerns, COG recommended deferring the spill area. However, Mr. Bratcher stated that some excavation would be required in the areas of AH-4, AH-5 and AH-6 that are somewhat accessible and the additional areas with some hydrocarbon staining could be worked in-situ. The remaining impacted areas not accessible would then be deferred.

Site Remediation

In October 28, 2014, Tetra Tech supervised the removal of impacted soil. As proposed in the work plan, the excavated areas are as highlighted (green) in Table 1 and shown on Figure 4. Due to the limited area and access issues, the areas of AH-4 and AH-5 were excavated to a depth of approximately 3.0' to 4.0' below surface and capped with a 40 mil plastic liner. Due to safety concerns, the area of AH-6, southeast of the SWD, could be excavated due to the multiple surface lines in the area.

Once the areas were excavated to the appropriate depths, the excavation was lined and backfilled with clean soil. Approximately 2,300 cubic yards of material was hauled to proper disposal.

Based on the limited remediation performed, COG request closure of the site. The remaining impacted soil will be deferred due to the surface lines and limited access to the soil. A Final C-141's are included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities for this site, please call me at (432) 682-4559.

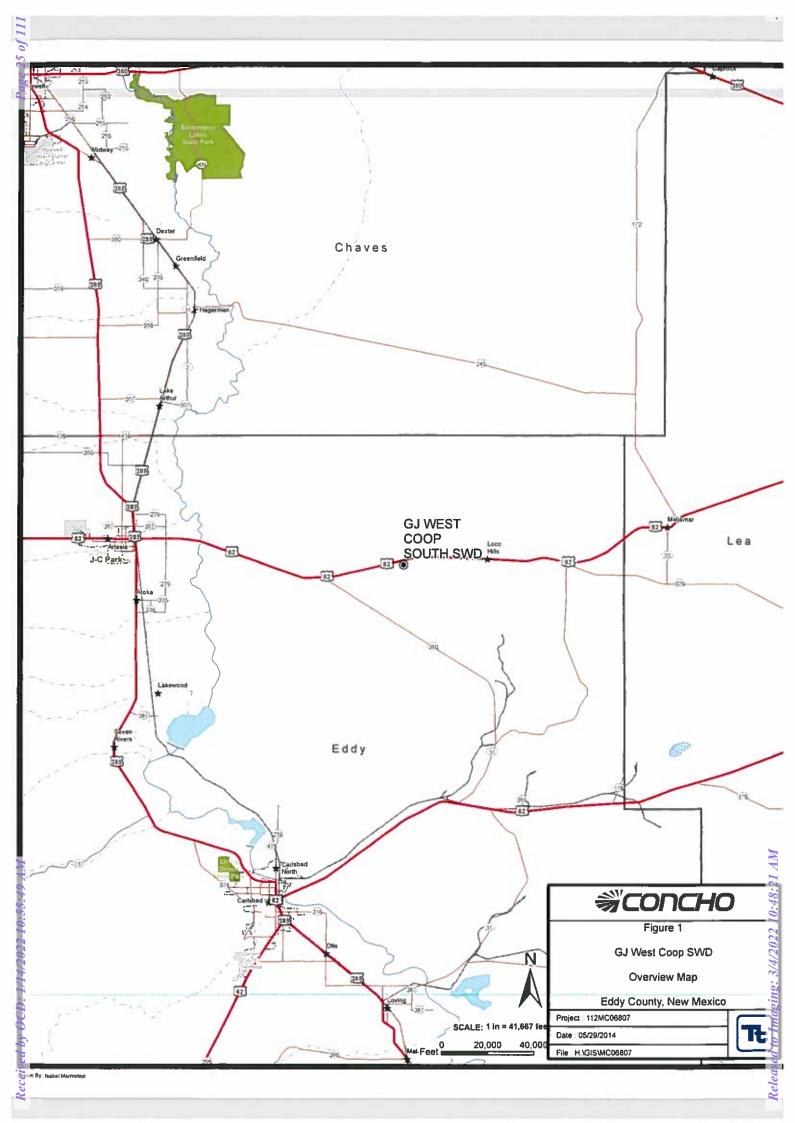
Respectfully submitted, TETRA TECH

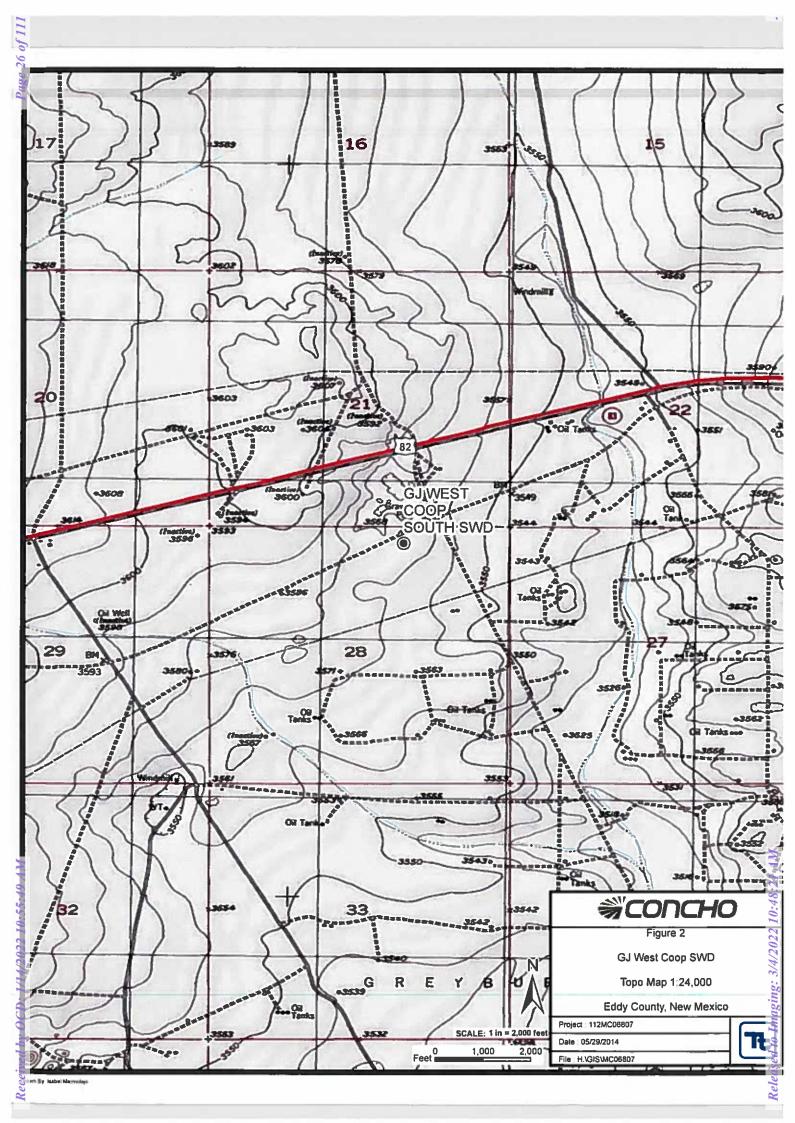
Ike Tavarez, PG Senior Project Manager

cc: Robert McNeil - COG

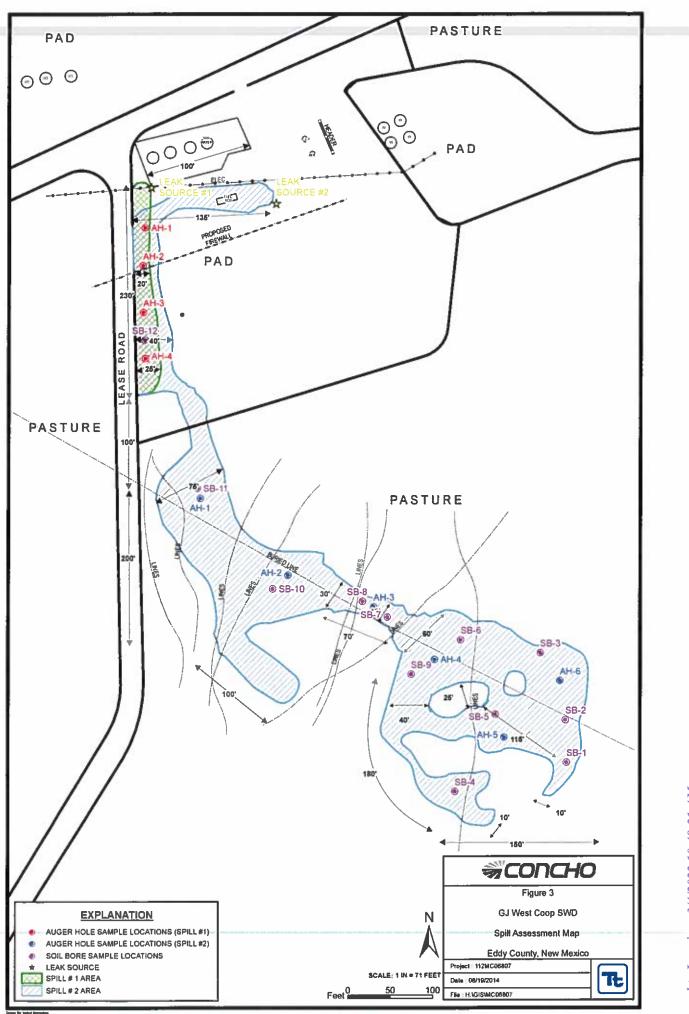
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FIGURES

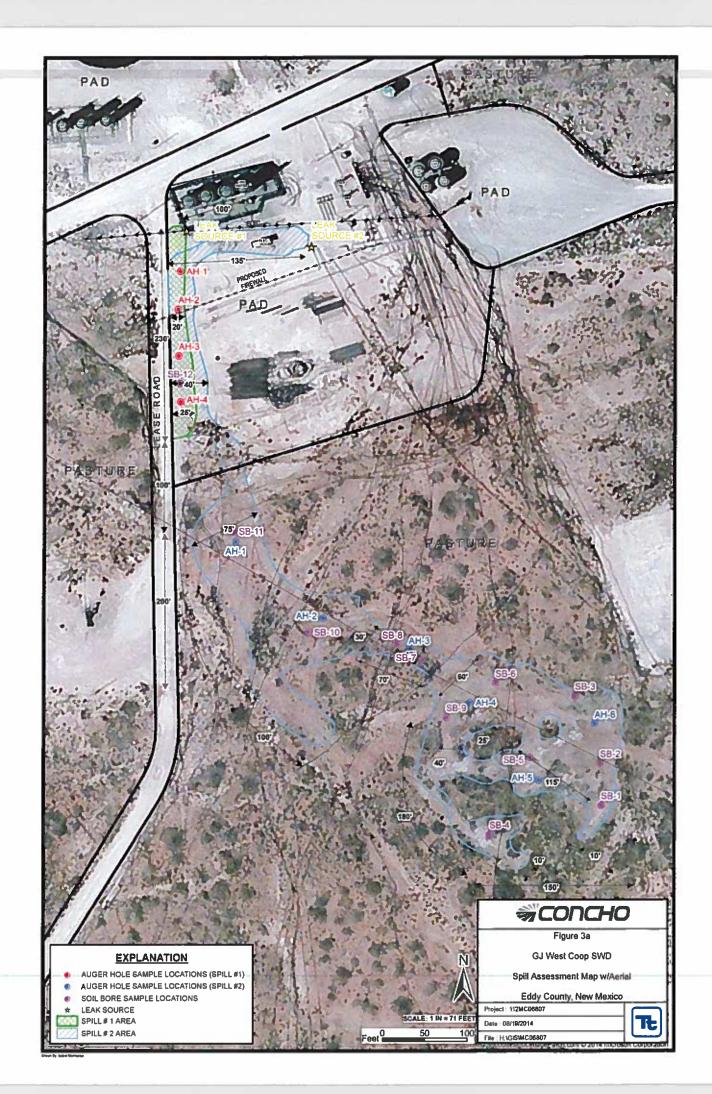




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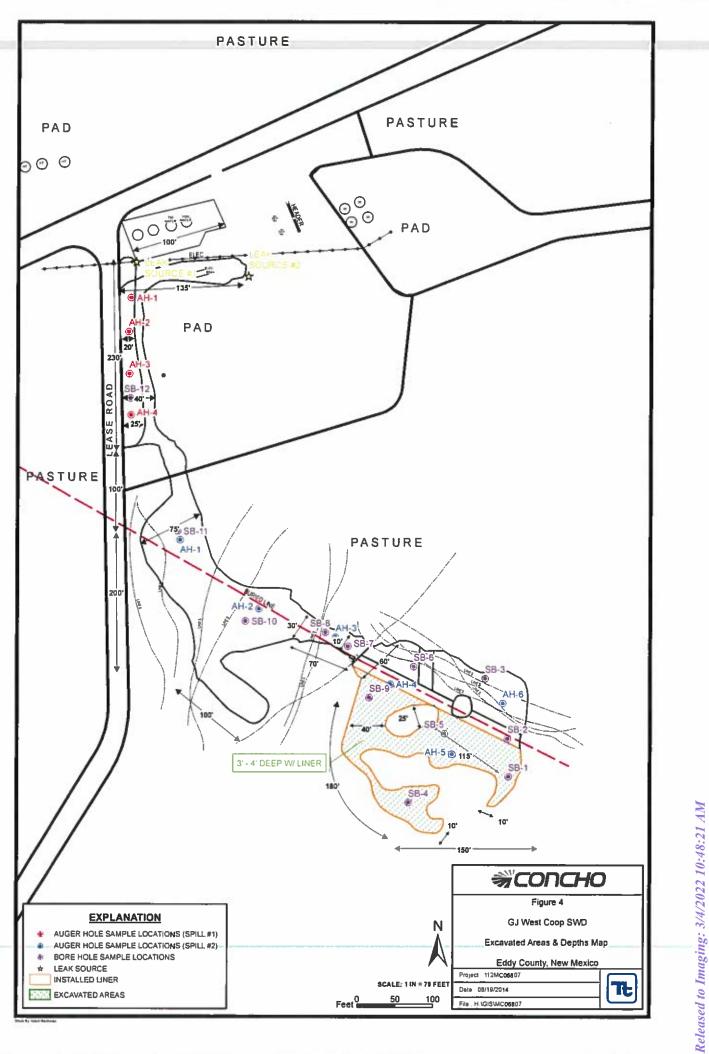


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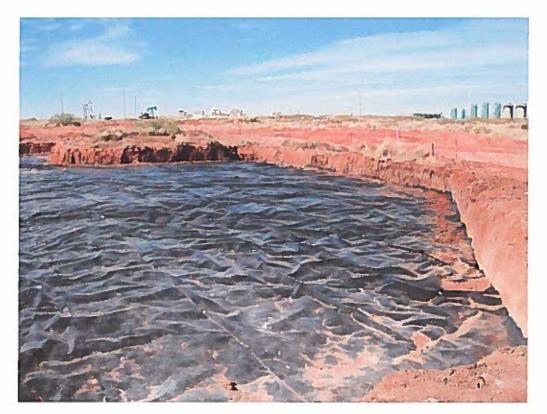
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PHOTOGRAPHS

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View West - Along COG buried water line at SB-1 and SB-5



View North-Area of SB-9

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View South - SB-9 and SB-4



View North West - SB-4

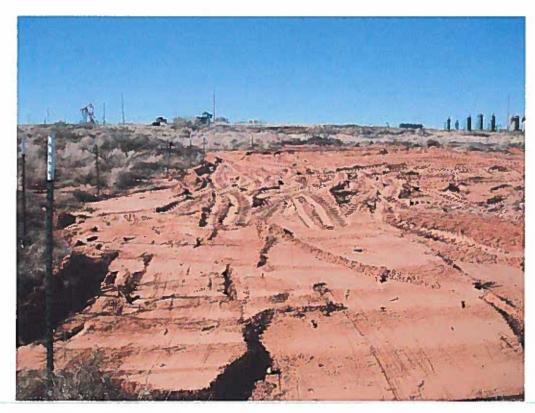
COG Operating LLC GJ West Coop Eddy County, New Mexico

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View North - Backfill area of SB-1 and SB-5



View West - Backfill area of AH-5 and SB-5

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View West - Backfilled area of SB-1 and SB-5



View South- Backfilled area of SB-9 and SB-4

TABLES

8

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Table 1COG Operating LLC.GJ West CO-OP South Water Distribution/Injection Line1st and 2nd SpillEDDY COUNTY, NEW MEXICO

Comple ID	Sample Date	Sample	Sample	Sample	Depth	Soi	I Status		TPH (mg/kg	3)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID		Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
AH-1	5/24/2010	0-1'		Х		<1.00	<50.0	<50.0	-	-	•	-	7,520		
1st Spill		1-1.5'		X		•	-	-	-	-	-	- 1	2,950		
		2-2.5'		Х		-	-		-	-	•	-	4,830		
		3-3.5'		Х		-	-	-	-	•	•	-	5,670		
		4-4.5'		Х		-	-	-	-	-		-	5,290		
		5-5.5'		Х		-	-	-	-	-		-	5,560		
		6-6.5'		Х		-	-	-	-	-	-		6,040		
		7-7.5'		Х		-	-	-	-	-		-	6,410		
		8-8.5'		Х		-	-	-	•	-	-	-	6,000		
		9-9.5'		Х		-	-	-	•	-	-	-	6,300		
411.0	E 10 4 10 0 4 0	0.41		N N		17.00									
AH-2	5/24/2010	0-1'		X		17.20	77.30	94.50	-	-		-	11,100		
1st Spill		1-1.5		Х		-	-	-	-	-	-	-	11,000		
		2-2.5'		Х		-	-	-	- 1	•	-	-	3,220		
		3-3.5'		Х		-	-	-	•	-	-	-	3,490		
		4-4.5'		Х		-	-	-	-	-	_	-	4,610		
		5-5.5'	A	Х		-	-	-	-	-	-	-	4,520		
ļ		6-6.5'		Х		-	-	-	-	-	•	-	4,310		
		7-7.5'		Х		-	-	-	-	-	-		2,290		
1		8-8.5		Х		-	-	-	-	-	-	-	2,570		
1		9-9.5'		Х		-			•	-	-	•	3,150		
AH-3	5/24/2010	0-1'		X		5.93	66.00	71.93	-	-	-	- 1	18,300		

0		Sample	Depth	Soi	I Status		TPH (mg/kg	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-4	5/24/2010	0-1'		Х		<1.00	<50.0	<50.0	•	-	-	-	15,700
1st Spill		1-1.5'		Х		-	-	-	•		•	- 1	4,250
		2-2.5		Х		-	-	-	-	-	•	-	5,250
		3-3.5'		X		-	-	-	-	-	-	-	5,990
		4-4.5'		Х		-	-	-	-	-	-	-	8,990
		5-5.5'		X		-	-	-	•	-	•	-	8,240
		6-6.5'		X		-	-	-	-	- ,	-	-	7,470
		7-7.5'		X		-	-	-	-	-	-		6,750
		8-8.5'		Х		-	-	-	-	-	-	-	5,170
		9-9.5'		Х		-	-	-	-	-		-	4,850
SB-12	12/9/2010	0-1'		X		66.7	1,040	1,107	<0.100	<0.100	<0.100	<0.100	3,510
		3'		X		-	-	-	-	-	-	-	4,710
		5'		Х		-	-	-	•	-	-	-	3,140
		7'		X		-	-	-	-	-	-	-	3,500
		10'		X	-	-	•	-	-	-	-		3,930
		15'		X		-	-	-	-	-	-	-	3,690
1		20'		X		-	•	-	-	-	-	-	929
		25'		Х		-	-	-	-	-	-	-	303
		30'		X		-		•	-	-	-	-	522

		Sample	Depth	Soi	I Status		TPH (mg/kg	3)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)		In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ALLA	10/4/0010	0.41					50.0	50.0					
AH-1	10/4/2010	0-1'		X		<1.00	<50.0	<50.0	-	-	-	-	5,280
2nd Spill		1-1.5'		X		-	-	-	-	-	-	-	3,820
		2-2.5'		X		-	-	-	-	-	-	-	3,940
		3-3.5'		Х		-	-	-	-		•	-	4,860
SB-11	12/9/2010	0-1'		X		<2.00	<50.0	<50.0	-	-	-	-	366
		3'		х		-	-	-	•	-	*	-	292
		5'		Х		-	100	-	-	-	-	-	1,610
		7'		X		-	-	-	-	-	-	-	8,650
		10'		X		-	-	-	-	-	-	-	15,600
		15'		X		-	-	-	-	-		-	5,800
1		20'		X		-	-	-	-	-	•	-	2,230
		25'		X		-	-	-	-	-	-	-	909
		30'		Х		-	-	-	-	-	-	-	949
		40'		Х		-	-	-	-	-	-	-	860
		50'		Х		-	-	-	-	-	• w.	•	1,050
		60'		х		1.70	17.2	1	1.72				711

Comple ID	Comple Date	Sample	Depth	Soi	I Status		TPH (mg/kg	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)		In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-2	10/4/2010	0-1'		Х		104	6,410	6,514	<0.200	0.293	<0.200	0.612	4,040
2nd Spill		1-1.5'		Х		<1.00	<50.0	<50.0		•	-	-	2,580
		2-2.5'		Х		<1.00	96	96	-	-	-	-	1,160
		3-3.5'		Х		-	-	-	-	-	-	tt	1,370
		4-4.5'		X		-	-	-	-	- 1		- 1	1,000
		5-5.5'		х		-	-	-	-	-		-	913
I.		6-6.5'		Х		-	-	-	-	-	-	· ·	977
		7-7.5'		Х	· · · · · · · · · · · · · · · · · · ·	-	-	-	-	-	-	-	1,120
		8-8.5'		Х		-	-	-	-	-	-	-	2,100
		9-9.5'		Х		-	-	-	-	-	-	-	3,810
SB-10	12/9/2010	0-1'		X		<20.0	2270	2,270	<0.200	<0.200	<0.200	<0.200	9,310
		3'		Х		-	-	•	-	-	-	- 1	8,260
		5'		Х		-	-	-	-	-	•	-	6,770
		7'		X		-	-	-	-	•	-		4,150
		10'		Х		-	-	-	•		•	-	3,290
		15'		Х		-	-	<u>.</u>	-	-	•	- 1	3,030
		20'		Х		-	-	-	-	-	-		7,180
		25'		Х		-	-	-	•	-	•	-	2,660
		30'		Х		<u> </u>	-	-	-	-	-	-	2,460
		40'		Х		-	-	-	-	-	- 1	-	1,280
		50'		Х		-	-	-	-	-	-		252
		60'		Х		-	•	-	•	-	-	-	272

Comula ID		Sample	Depth	Soi	I Status		TPH (mg/kg	J)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)		In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-3	10/4/2010	0-1'		X		<1.00	88.10	88.10	-	-	-	- 1	279
2nd Spill	-	1-1.5'		Х		-	-	•	-	•	•	- 1	<200
	i	2-2.5'		X		-	-	-	-	-	-	- 1	694
		3-3.5'		X		-	-	•	-	-	•	- 1	1,260
		4-4.5'		х		-	-	• =	-	•	•	- 1	3,240
ļ		5-5.5'		Х		-	-	-	•	-	-		8,300
1		6-6.5'		х		-	-	-	-	-	-	-	8,830
		7-7.5'		Х		-	-		-	-	-	-	10,900
		8-8.5'		Х		-	•	-	•	-	-	•	9,460
		9-9.5'		Х		-	-	•	-	-	-		8,750
SB-7	12/8/2010	0-1'		X		560	1120	1,680	<0.400	<0.400	<0.400	2.2	6,360
(AH-3)		3'		х		-	-		-	-		-	3,140
		5'		X		-	*	-	-	-		-	2,590
		7'		Х		-	-	•	-	•	-		7,810
		10'		X		8 4 3	•	-	•	-		-	9,200
		15'		Х		-	•	-	-	-	-		4,580
		20'		Х		-	-	-	-	-	-	-	4,410
		25'		Х		-	-	-	-	-	-	-	1,060
		30'		Х		-	-		-	•	-	-	271
	1	40'		X		-	-	-	-	-		-	<200
		50'		X		-	•	•	-	•	•	- 1	290
		60'		Х		-	-	-	-	-	-	-	271

	Comple Date	Sample	Depth	Soi	l Status		TPH (mg/kg	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
	Sample Date	Depth (ft)		In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-8	12/8/2010	0-1'		Х		2.56	307	309.56	<0.0200	<0.0200	<0.0200	<0.0200	<200
(AH-3)		3'		Х		-	-	•	-	-	-	-	261
		5'		Х		• .	-	-	-	-	-	- 1	7,640
1		7'		Х		-	-	•	-	-	-	-	4,820
		10'		Х		-	-	•	-	-	•	-	3,180
		15'		Х		-	-	-	-	-	-	•	9,800
		20'		Х		-	-	-	-	-	•	-	10,800
		25'		Х		-	-	-	-	-	•	-	3,490
		30'		X	ï	•	-	-	•	-	-	-	3,180
		40'		Х		-	-	-	-	-	-	-	2,680
		50'		Х		-	•	-		· · ·	-	-	2,210
AH-4	10/4/2010	0-1'	1000		x	1,430	8,060	9,490	<0.200	1.78	4.87	12.7	6,710
2nd Spill		1-1.5'			Х	590	<250	590	-	-		-	2,530
		2-2.5'			X	<1.00	151	151				-	2,040
		3-3.5'			X	-		•	-		• *	-	1,790
1		4-4.5'			Х	•	1002-5	-	-		•		1,720
		5-5.5'		Х		-	-	•	-		•	-	2,690
		6-6.5'		Х		-		-		-	-	-	4,290
		7-7.5'		X			•	•	-	-	-	-	4,030
		8-8.5'		Х		-		•	-	-	•	-	3,980
		9-9.5'		Х		•	-	-	•	•	-		3,430

Comple ID	Comple Date	Sample	Depth	Soi	I Status		TPH (mg/kg	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)		In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-6	12/7/2010	0-1'		x	-	<2.00	62.1	62.1	<0.0200	<0.0200	<0.0200	<0.0200	821
(AH-4)		3'		X			-		-	-		-	936
<u>, , , , , , , , , , , , , , , , , , , </u>		5'		X		-	-	•	-	_			8,190
1		7'		x		-		•	_	_			3,950
		10'		x		-		-		-		-	9,110
		15'		х		-	-	-		-			9,640
		20'		х		-	-	-	-	-		-	3,100
		25'		Х		-	-	-	-	-	-	-	3,490
1		30'		Х		-	-	-	•	-	-	-	992
		40'		х		-	-	-	-	-	•	-	<200
		50'		Х		•	-	-	-	-	-	-	<200
		60'		Х		*		-	-	-	-	- 1	<200
		70'		Х		-	-	-	-	-	-	-	386
SB-9	12/8/2010	0-1'			X	587	3830	4,417	<1.00	<1.00	<1.00	5.47	5 000
(AH-4)		3'			x	-	-	-1,417	-	-	-	-	5,220 4,780
		5'		х		-		-	_	-	-		2,290
		7'		X		-	-	•					3,550
		10'		X		-	-	-	-	-	-	-	1,780
		15'		Х		-	-	-	-	-		-	2,310
		20'		х		-	-	-	-	-	-		2,580
		25'		X		-	-	-		-	•		3,800
		30'		X		-	-	-	-	-		-	800
		40'		X		•	-	• .	-	-	-		255
		50'		Х		-	-	-	-	-	-	-	1,320
		60'		Х		-	-	- "	-	-	-		568

Comple ID	Comple Date	Sample	Depth	Soi	I Status		TPH (mg/kg	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)		In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-5	10/4/2010	0-1'			Х	91.30	71.10	162.4	<0.0500	<0.0500	0.304	0.358	5,970
2nd Spill		1-1.5'			Х			-	-			-	2,770
		2-2.5'			Х	-		-		-181		-	3,380
		3-3.5'			Х			-		-		-	5,110
		4-4.5'			Х	-	-	-	•			-	6,210
		5-5.5'		Х		-	-	· _	-	-	_	· ·	8,390
		6-6.5'		х		-	•	-	•	-	_	-	8,360
		7-7.5'		Х		-	-	-	-	-	_	-	6,580
		8-8.5		Х		-		-	-	-	-	-	6,410
		9-9.5'		Х		-	-	-	-	_ 1	-	-	6,030
SB-1	12/6/2010	0-1'			X	<2.00	57.1	57.1			-		1,210
(AH-5)		3'			Х				0 I I I	-		-	3,040
		5'		х		-	-	-	-	-	-	· ·	2,780
		7'		х		-	-	-	•	-	-		1,310
1		10'		X		-	-	-	-	-	-	-	616
		15'		Х		-	-	-	-	-		- 1	1,080
	~	20'		Х	-	-	-	-	-	-	_	-	538
		25'		Х		-	-	-	-	-	-	-	921
1		30'		Х		-	-	-	-	-	•	-	5,230
		40'		Х		~	-	-	-	-	-	-	1,620
		50'		Х		-	-	-	-	-	•	-	2,700
		60'		Х			-	-	•	-	-		641

amala ID		Sample	Depth	Soi	l Status		TPH (mg/kg	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-4	12/7/2010	0-1'			X	<2.00	<50.0	<50.0	•	•			7,040
(AH-5)		3'			X	-		-				-	5,420
		5'		х		-	-	-		-	•	-	4,430
		7'		X		-	-	-	-	-		-	7,040
		10'		х		-	-	•	-	-	-		5,850
		15'		Х		-	_ .	-	-	_		-	11,800
		20'		Х		•	-	-	-	-	•	- +	7,120
		25'		Х		-	-	•	-	-	-		3,000
î.		30'		Х		-	-	-	-	-	•	-	2,790
		40'		х		-	-	-	-	-	•	-	956
		50'		X		-	-	-	-	-	-	- 1	480
SB-5	12/7/2010	0-1'			x	<10.0	426	426	<0.100	<0.100	<0.100	<0.100	3,540
(AH-5)		3'			Х		-	-		-		-	3,360
		5'		х		-	-	-	-	-	-	1 - 1	2,420
		7'		Х		-	-	-	-	-	-	-	2,050
		10'		Х		-	-	-	-	-	-	<u> </u>	2,970
		15'		х		-	-	-	•	-	-	- 1	3,280
		20'		X		-	-	-	•	-	-	-	9,500
		25'		Х		-	-	-	-	-	-		4,220
		30'		х		-	-	-	-	•	-	-	609
		40'		X		-	-	-	-	-	-		2,710
		50'		х		-	-	-	-	-	•	-	3,360
		60'	·	X		-	-	-	-	-	•	-	754
		70'		Х		-	-	-	-	-	•	-	1,840

Comple ID	Comple Date	Sample	Depth	Soi	I Status		TPH (mg/kg	3)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-6	10/4/2010	0-1'		Х		1,320	4,400	5,720	<0.500	0.701	14.4	13.9	2,710
2nd Spill		1-1.5'		Х		5,820	1,830	7,650	-	•		-	983
		2-2.5'		Х		11,100	2,150	13,250	-	~	-	-	3,320
		3-3.5'		Х		1,560	2,160	3,720	· ·	-	-		3,240
		4-4.5'		х		3,260	2,380	5,640	· ·	_	-	-	3,710
		5-5.5'		х		2,050	2,320	4,370	-	•			3,830
		6-6.5'		Х		1,500	929	2,429	-	_	-	-	1,710
		7-7.5'		Х		926	1,950	2,876		-		-	4,080
		8-8.5'		Х		1,040	2,080	3,120	•	-	•	-	2,320
		9-9.5'		Х		917	3690	4,607	-	~	-	-	6,280
SB-2	12/6/2010	0-1'		х		<10.0	437	437	<0.100	<0.100	<0.100	<0.100	6,990
(AH-6)		3'		Х		-	-	-	-	-	-	-	2,810
		5'		х		-	-	~	-	~	-	-	1,300
		7'		Х		-	-	-	-	-	-	-	2,260
		10'		Х		-	-	-	-	-	-	-	2,540
		15'		Х		-	1.71	-		ж ¹		(#).	2,270
		20'		Х		-		2	аран (1946) Саран (1946)	12	-	262	4,600
		25'		Х		-	-	2				3993	2,480
		30'		х		-	•	14	100	2	823	828	289
ĺ		40'		Х		-	•	<i></i>		2	•		712
		50'		х		-	192	2	1.22	2		94 <u>-</u> 9	217
		60'		х		•			0.755		-		754

		Sample	Depth	Soi	I Status		TPH (mg/kg	J)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Sample ID	Sample Date	Depth (ft)		In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-3	12/7/2010	0-1'		x		<2.00	<50.0	<50.0	-	-	-		<200
(AH-6)		3'		X		-	-	-	-	-	-	-	341
		5'		Х		-	-	-	-	-		-	6,520
		7'		Х		-	•	-	-	-	-	-	8,340
		10'		Х		-	-	-	-	-	-	-	6,810
		15'		Х		-	-	-	-	•	•	-	3,510
		20'		Х		-	-	-	-	-	-	-	1,040
1. Second Second		25'		X		~	-	-	•	-	-	-	3,180
		30'		X		-	•	-	-	-	-	•	1,140
		40'		Х		-	-	-		-		-	361
		50'		Х		-	-	-	-	-	-	-	<200
		60'		Х		-	-	-	-	-	-	· ·	<200

BEB (--)

Not Analyzed

Excavation

Liner installation

Below Excavation Bottom

Page 47 of 111 **APPENDIX A** Released to Imaging: 3/4/2022 10:48:21 AM Received by OCD: 1/14/2022 10:55:49 AM

48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		175:24
	of New Mexico	05-7
	Is and Natural Resources	Form C-14 Revised October 10, 200.
1301 W. Grand Avenue, Artesia, NM 88210 District III Oil Cons	servation Division	Submit 2 Copies to appropriat District Office in accordance
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 Sol	uth St. Francis Dr.	with Rule 116 on back
1220 S. St. Francis Dr., Santa Fe, NMt 87505 Santa	Fe, NM 87505	side of form
Release Notificati	on and Corrective Action	on
	OPERATOR	🛛 Initial Report 🔲 Final Repo
Name of Company COG OPERATING LLC Address 550 W. Texas, Suite 100, Midland, TX 79701	Contact Pat El Telephone No. 432-230-	
Address 550 W. Texas, Suite 100, Midland, TX 79701 Facility Name GJ West Coop South Water Distribution Site	Facility Type Tank Ba	
Surface Owner State Mineral Owner		Lease No.
	ON OF RELEASE	
		st/West Line County
B 23 17S 29E		Eddy
Latitude 32.812		
	E OF RELEASE	
Type of Release Produced Water Source of Release Transfer Pump	Volume of Release 100bbls Date and Hour of Occurrence	Volume Recovered 10bbls Date and Hour of Discovery 1000000000000000000000000000000000000
	05/06/2010	05/06/2010 4:00 p.m.
Was Immediate Notice Given'!	ed If YES, To Whom? Mik	e Bratcher - OCD
By Whom? Josh Russo	Date and Hour 05/07/2010	9:25 a.m.
Was a Watercourse Reached?	If YES. Volume Impacting the W	/atercourse.
If a Watercourse was Impacted, Describe Fully,*		
if a walerebulse was implacted, isosenioe rany.		
Describe Cause of Problem and Remedial Action Taken.*		
A swedge broke off of the water transfer pump. The swedge has been	repaired and the pump has been put ha	ck in service.
Describe Area Affected and Cleanup Action Taken.*		
Initially 100bbls of produced water was released from the water transfe	er numn. We were able to recover 10b	ble. The spill site area dimensions are 300° s
10°. Tetra Tech will sample the spill site area to delineate any possible		
OCD for approval prior to any significant remediation work.		
		A 5 10 (1)
I hereby certify that the information given above is true and complete t regulations all operators are required to report and/or file certain release		
public health or the environment. The acceptance of a C-141 report by should their operations have thiled to adequately investigate and remed		
or the environment. In addition, NMOCD acceptance of a C-141 report		
federal, state, or local laws and/or regulations.	OIL CONSET	RVATION DIVISION
775		
Signature:	Approved by District Supervisor:	.48:
Printed Name: Josh Russo	Adducered of District aubervisor.	5
Title: HSE Coordinator	Approval Date:	Expiration Date: Attached []
Title: HSE Coordinator E-mail Address: jrusso @conchoresources.com	Conditions of Approval.	3/4/
		Attached
Attach Additional Sheets If Necessary		
Dine: 05/07/2010 Phone: 432-212-2399 Attach Additional Sheets If Necessary		uI 0,
per la construction de la		sed 1
		elea
*		×

111										
49 of						0671	1			
Page 49 of 111	District [1625 N. French Dr., Hubbs, NM 88240		f New Mexico			001	Form C-14			
1	District II 1301 W. Grand Avenue, Artesia, NM 88210		s and Natural Resource	S			ctober 10, 200			
	District III 1000 Rio Brazos Road, Azter, NM 87410		ervation Division th St. Francis Dr.			Submit 2 Copies District Office	to appropria in accordanc			
	District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		Fe, NM 87505			with Rul	e 116 on bat side of for			
(Rel		on and Corrective	Actio)n					
			OPERATOR		 N Iniția	al Report	Final Rep			
	Name of Company COG OPERATIN	the second se	Contact	Pat Ell	is					
	Address 550 W. Texns, Suite 100, M Facility Name GJ West Coop Unit South Wi			32-230-0 Injection						
	Surface Owner State	Mineral Owner		- N	Lease N					
			ON OF RELEASE							
	Unit Letter Section Township Range		it/South Line Feet from th	ie Eas	t/West Line	County				
	B 28 17S 29E		1			Eddy				
		Latitude 32 48.65	5 Longitude 104 04.5	555						
		NATURI	E OF RELEASE							
	Type of Release Produced water		Volume of Release 100		the second se	ecovered 50bbls	and the second se			
	Source of Release Nipple off of injection line	90	Date and Hour of Occur 09/17/2010	rence		Hour of Discovery 0 2:00 p.m.	(1995)			
	Was Immediate Notice Given?	No 🗌 Not Required	If YES, To Whom?	Mike	Bratcher-O	CD				
	By Whom? Josh Russo		Date and Hour 09/17/2	010 5:51	7 p.m.					
	Was a Watercourse Reached?	3 Na	If YES, Volume Impacti	ing the Wi	atercourse.					
	If a Watercourse was impacted, Describe Fully,									
6										
1	Describe Cause of Problem and Remedial Action	m Taken.*								
	A nipple came loose off of the 90 on the injection	on line. All old fittings w	vere replaced with new fittin	gs.						
	Describe Area Affected and Cleanup Action Ta	ken.*								
	Initially 100bbls of produced water was released	d due to the faulty fitting	at the 90 on the injection lin	e. We we	re able to ree	over 50bbls with a	งละบบสา			
	truck. The spill area has the dimensions of 10°. Sec.28-T17S-R29E, 565° FNL 1330° FEL, Edd	x 600° in the pasture. (T	he closest well location to th	e release i	is the GJ Wes	1 Coop Unit #170.	Unit B			
	contamination from the release and we will pres									
	I hereby certify that the information given above	e is true and complete to	the best of my knowledge ar	nd underst	and that pursu	uant to NMOCD ru	ales and			
	regulations all operators are required to report a public health or the environment. The acceptant	nd/or file certain release	notifications and perform co he NMOCD marked as "Fina	rrective a	ctions for rele does not relie	ases which may en	idanger Tiability			
	should their operations have failed to adequately or the environment. In addition, NMOCD accept	y investigate and remedia	ite contamination that pose a	threat to	ground water.	, surface water, hu	nan health			
	federal, state, or local laws and/or regulations.	prance of a C+141 report					oraci			
		> <	<u>OIL CC</u>	<u>INSER</u>	VATION	DIVISION	~			
1M	Signature:	$\underline{\bigcirc}$					IAN			
:49 /	Printed Name: Josh Russo		Approved by District Super	rvisor:			8:2			
0:55	Title: HSE Coordinato	r	Approval Date:		Expiration I	Date.	10:4			
22 1	E-mail Address: jrussu/a conchoresourd	ces.com	Conditions of Approval:				022			
4/20		-212-2309				Attached	3/4/2			
IT	Tach Additional Sheets If Necessary	-212-23-99				L	ng:			
8							nagi			
by 0							to In			
ved							sed			
Received by OCD: 4/14/2022 10:55:49 AM							Released to Imaging: 3/4/2022 10:48:21 AM			
Rec										

Report Date: Octo	ober 22, 2010	Work Order: 10100715	Page	Number: 6 of 9
Sample: 246942	- AH-4 0-1'			
Param	Flag	Result	Units	RL
Chloride		6710	mg/Kg	4.00
	<u>, </u>			
Sample: 246943	- AH-4 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		2530	mg/Kg	4.00
Sample: 246944	- AH-4 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		2040	mg/Kg	4.00
Sample: 246945 Param Chloride	- AH-4 3-3.5' Flag	Result 1790	Units mg/Kg	RL 4.00
Sample: 246946	- AH-4 4-4.5'			
Param	Flag	Result	Units	RL
Chloride	·	1720	mg/Kg	4.00
Sample: 246947	- AH-4 5-5.5'			
Param	Flag	Result	Units	RL
		2690	mg/Kg	4.00
Chloride				
	- AH-4 6-6.5'			
Sample: 246948 Param	- AH-4 6-6.5' Flag	Result	Units	RL
Chloride Sample: 246948 Param Chloride		Result 4290	Units mg/Kg	RL 4.00
Sample: 246948 Param	Flag			
Sample: 246948 Param Chloride	Flag			

Released to Imaging: 3/4/2022 10:48:21 AM

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Report Date: Octo	ber 22, 2010	Work Order: 10100715	Page	Number: 7 of 9
Sample: 246950	- AH-4 8-8.5'			
Param	Flag	Result	Units	RL
Chloride	0	3980	mg/Kg	4.00
Sample: 246951	- AH-4 9-9.5'			
Param	Flag	Result	Units	RL
Chloride		3430	mg/Kg	4.00
Sample: 246952	- AH-5 0-1'			
Param	Flag	Result	Units	RL
Chloride		5970	mg/Kg	4.00
Sample: 246953				
Param Chloride	Flag	Result 2770	Units mg/Kg	RL 4.00
Sample: 246954 -		Dende	ET. 14 m	DI
Param Chloride	Flag	Result 3380	Units mg/Kg	RL 4.00
			6/ **8	
Sample: 246955 ·				
Param Chloride	Flag	Result	Units	RL
nioride		5110	mg/Kg	4.00
Sample: 246956 -	AH-5 4-4.5'			
aram	Flag	Result	Units	RL
Chloride		6210	mg/Kg	4.00
Sample: 246957 -	AH-5 5-5.5'			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		8390	mg/Kg	4.00

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Report Date: Octo	ober 22, 2010	Work Order: 10100715	Р	age Number: 8 of 9
Sample: 246958	- AH-5 6-6.5'			
Param	Flag	Result	Units	RI
Chloride		8360	mg/Kg	4.00
Sample: 246959	- AH-5 7-7.5'			
Param	Flag	Result	Units	RI
Chloride		6580	mg/Kg	4.00
Sample: 246960	- AH-5 8-8.5'			
Param	Flag	Result	Units	RI
Chloride		6410	mg/Kg	4.00
Sample: 246961	- AH-5 9-9.5'			
Param	Flag	Result	Units	RI
Chloride	· · · · · · · · · · · · · · · · · · ·	6030	mg/Kg	4.00
Sample: 246962				
Param Chloride	Flag	<u>Result</u> 2710	Units mg/Kg	RI 4.00
		2710	mg/ Kg	4.00
Sample: 246963		Result	Units	RI
Param Chloride	Flag	983	mg/Kg	4.00
Sample: 246964	- AH-6 2-2.5'			
Param	Flag	Result	Units	RI
Chloride		3320	mg/Kg	4.00
	- AH-6 3-3.5'			
Sample: 246965 ·				
Sample: 246965 · Param	Flag	Result	Units	RI

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Report Date: Octo	ober 22, 2010	Work Order: 10100715	Pa	age Number: 9 of 9
Sample: 246966	- AH-6 4-4.5'			
Param	Flag	Result	Units	RL
Chloride		3710	mg/Kg	4.00
Sample: 246967	- AH-6 5-5.5'			÷
Param	Flag	Result	Units	RL
Chloride		3830	mg/Kg	4.00
Sample: 246968	- AH-6 6-6.5'			
Param	Flag	Result	Units	RL
Chloride		1710	mg/Kg	4.00
Sample: 246969	- AH-6 7-7.5'			
Param	Flag	Result	Units	RL
Chloride		4080	mg/Kg	4.00
Sample: 246970	- AH-6 8-8.5'			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		2320	mg/Kg	4.00
Sample: 246971	- AH-6 9-9.5'			
Param	Flag	Result	Units	RL
	0		17.5	4.00

Received by OCD: 1/14/2022 10:55:49 AM

Chloride

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TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

6280

mg/Kg

4.00

Report Date: December 22, 2010

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Work Order: 10121028

Page Number: 1 of 12

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: December 22, 2010

Work Order: 10121028

Project Location:	Eddy Co., NM
Project Name:	COG/GJ Co-op SWD
Project Number:	114-6400524

Description SB-1 0-1' SB-1 3'	Matrix soil	Taken 2010-12-06	Taken	Received
SB-1 3*		2010 12 06		
		2010-12-00	00:00	2010-12-10
(17) 1 F1	soil	2010-12-06	00:00	2010-12-10
SB-1 5'	soil	2010-12-06	00:00	2010-12-10
SB-1 7'	soil	2010-12-06	00:00	2010-12-10
SB-1 10'	soil	2010-12-06	00:00	2010-12-10
SB-1 15'	soil	2010-12-06	00:00	2010-12-10
SB-1 20'	soil	2010-12-06	00:00	2010-12-10
SB-1 25'	soil	2010-12-06	00:00	2010-12-10
SB-1 30'	soil	2010-12-06	00:00	2010-12-10
SB-1 40 ⁺	soil	2010-12-06	00:00	2010-12-10
SB-1-50'	soil	2010-12-06	00:00	2010-12-10
SB-1 60'	soil	2010-12-06	00:00	2010-12-10
SB-2 0-1'	soil	2010-12-06	00:00	2010-12-10
SB-2 3'	soil	2010-12-06	00:00	2010-12-10
SB-2 5'	soil	2010-12-06	00:00	2010-12-10
SB-2 7'	soil	2010-12-06	00:00	2010-12-10
SB-2 10'	soil	2010-12-06	00:00	2010-12-10
SB-2 15'	soil	2010-12-06	00:00	2010-12-10
SB-2 20'	soil	2010-12-06	00:00	2010-12-10
SB-2 25'	soil	2010-12-06	00:00	2010-12-10
SB-2 30'	soil	2010-12-06	00:00	2010-12-10
SB-2 40'	soil	2010-12-06	00:00	2010-12-10
SB-2 50'	soil	2010-12-06	00:00	2010-12-10
SB-2 60'	soil	2010-12-06	00:00	2010-12-10
SB-3 0-1'	soil	2010-12-07	00:00	2010-12-10
SB-3 31	soil	2010-12-07	00:00	2010-12-10
SB-3 5'	soil	2010-12-07	00:00	2010-12-10
SB-3 7'	soil	2010-12-07	00:00	2010-12-10
SB-3 10'	soil	2010-12-07	00:00	2010-12-10
SB-3 15'	soil	2010-12-07	00:00	2010-12-10
	SB-1 10' SB-1 15' SB-1 20' SB-1 25' SB-1 30' SB-1 40' SB-1 50' SB-2 0-1' SB-2 0-1' SB-2 3' SB-2 7' SB-2 7' SB-2 10' SB-2 15' SB-2 10' SB-2 20' SB-2 20' SB-2 20' SB-2 20' SB-2 30' SB-2 30' SB-2 40' SB-2 50' SB-2 60' SB-3 0-1' SB-3 3' SB-3 10' SB-3 15'	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

TraceAnalysis, Inc. • 6701 Aberdeen Avc., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: December 22, 2010

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Work Order: 10121028

Page Number: 2 of 12

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
252995	SB-3 20'	soil	2010-12-07	00:00	2010-12-10
252996	SB-3 25	soil	2010-12-07	00:00	2010-12-10
252997	SB-3 30*	soil	2010-12-07	00:00	2010-12-10
252998	SB-3 40*	soil	2010-12-07	00:00	2010-12-10
252999	SB-3 50'	soil	2010-12-07	00:00	2010-12-10
253000	SB-3 60'	soil	2010-12-07	00:00	2010-12-10
253001	SB-4 0-1'	soil	2010-12-07	00:00	2010-12-10
253002	SB-4 3'	soil	2010-12-07	00:00	2010-12-10
253003	SB-4 5'	soil	2010-12-07	00:00	2010-12-10
253004	SB-4 7'	soil	2010-12-07	00:00	2010-12-10
253005	SB-4 10	soil	2010-12-07	00:00	2010-12-10
253006	SB-4 15'	soil	2010-12-07	00:00	2010-12-10
253007	SB-4 20'	soil	2010-12-07	00:00	2010-12-10
253008	SB-4 25'	soil	2010-12-07	00:00	2010-12-10
253009	SB-4 30'	soil	2010-12-07	00:00	2010-12-10
253010	SB-4 40'	soil	2010-12-07	00:00	2010-12-10
253011	SB-4 50'	soil	2010-12-07	00:00	2010-12-10
253012	SB-5 0-1'	soil	2010-12-07	00:00	2010-12-10
253013	SB-5-31	soil	2010-12-07	00:00	2010-12-10
253014	SB-5 5'	soil	2010-12-07	00:00	2010-12-10
253015	SB-5 7'	soil	2010-12-07	00:00	2010-12-10
253016	SB-5 10'	soil	2010-12-07	00:00	2010-12-10
253017	SB-5 15	soil	2010-12-07	00:00	2010-12-10
253018	SB-5 20'	soil	2010-12-07	00:00	2010-12-10
253019	SB-5 25'	soil	2010-12-07	00:00	2010-12-10
253020	SB-5 30'	soil	2010-12-07	00:00	2010-12-10
253021	SB-5 40 ¹⁰	soil	2010-12-07	00:00	2010-12-10
253022	SB-5 50 ¹⁰	soil	2010-12-07	00:00	2010-12-10
253023	SB-5 60 ⁷	soil	2010-12-07	00:00	2010-12-10
253024	SB-5 70'	soil	2010-12-07	00:00	2010-12-10
253025	SB-6 0-1'	soil	2010-12-07	00:00	2010-12-10
253026	SB-6 3*	soil	2010-12-07	00:00	2010-12-10
253027	SB-6 5'	soil	2010-12-07	00:00	2010-12-10
253028	SB-6 7'	soil	2010-12-07	00:00	2010-12-10
253029	SB-6 10	soil	2010-12-07	00:00	2010-12-10
253030	SB-6 15"	soil	2010-12-07	00:00	2010-12-10
253031	SB-6 20'	soil	2010-12-07	00:00	2010-12-10
253032	SB-6 25'	soil	2010-12-07	00:00	2010-12-10
253033	SB-6 30 ¹	soil	2010-12-07	00:00	2010-12-10
253034	SB-6 40*	soil	2010-12-07	00:00	2010-12-10
253035	SB-6 50'	soil	2010-12-07	00:00	2010-12-10
253036	SB-6 60'	soil	2010-12-07	00:00	2010-12-10
253037	SB-6 70'	soil	2010-12-07	00:00	2010-12-10

	BTEX			TPH DRO - NEW	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
252965 - SB-1 0-1'					57.1	<2.00

continuea ...

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Report Date: December 22, 2010

Work Order: 10121028

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... continued

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	BTEX			TPH DRO - NEW	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
252977 - SB-2 0-1'	<0.100	< 0.100	< 0.100	< 0.100	437	<10.0
252989 - SB-3 0-1'					<50.0	<2.00
253001 - SB-4 0-1'					< 50.0	<2.00
253012 - SB-5 0-1'	<0.100	< 0.100	<0.100	<0.100	426	<10.0
253025 - SB-6 0-1'	<0.0200	< 0.0200	<0.0200	<0.0200	62.1	<2.00

Sample: 252965 - SB-1 0-1'

I ULUIII	 	Quinco	×+++
Chloride	1210	mg/Kg	4.00

Sample: 252966 - SB-1 3'

Param	Flag	Result	Units	RL
Chloride		3040	mg/Kg	4.00

Sample: 252967 - SB-1 5'

Param	Flag	Result	Units	RL
Chloride		2780	mg/Kg	4.00

Sample: 252968 - SB-1 7

Param	Flag	Result	Units	RL
Chloride		1310	mg/Kg	4.00

Sample: 252969 - SB-1 10'

Param	Flag	Result	Units	RL
Chloride		616	mg/Kg	4.00
6-1				

Sample: 252970 - SB-1 15'

Param	Flag	Result	Units	RL
Chloride		1080	mg/Kg	4.00

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Report Date: Dece	mber 22, 2010	Work Order: 10121028	Page	Number: 4 of 12
Sample: 252971	- SB-1 20'			
Param	Flag	Result	Units	RL
Chloride		538	mg/Kg	4.00
Sample: 252972	- SB-1 25'			
Param	Flag	Result	Units	RL
Chloride		921	mg/Kg	4.00
Sample: 252973	- SB-1 30'			
Param	Flag	Result	Units	RL
Chloride		5230	mg/Kg	4.00
Sample: 252974	- SB-1 40'			
Param	Flag	Result	Units	RL
Chloride		1620	mg/Kg	4.00
Sample: 252975	- SB-1 50'			
Param	Flag	Result	Units	RL
Chloride		2700	mg/Kg	4.00
Sample: 252976	- SB-1 60'			
Param	Flag	Result	Units	RL
Chloride		641	mg/Kg	4.00
Sample: 252977	- SB-2 0-1'			
Param	Flag	Result	Units	RL
Chloride		6990	mg/Kg	4.00
Sample: 252978 -	- SB-2 3'			
Param	Flag	Result	Units	RL
	· · ·	2810	mg/Kg	4.00

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Report Date: Dece	mber 22, 2010	Work Order: 10121028	Page ?	Sumber: 5 of 12
Sample: 252979	- SB-2 5'			
Param	Flag	Result	Units	RL
Chloride		1300	mg/Kg	4.00
Sample: 252980	- SB-2 7'			
Param	Flag	Result	Units	RL
Chloride		2260	mg/Kg	4.00
Sample: 252981	- SB-2 10'			
Param	Flag	Result	Units	RL
Chloride		2540	mg/Kg	4.00
Sample: 252982	- SB-2 15'			
Param	Flag	Result	Units	RL
Chloride		2270	mg/Kg	4.00
Sample: 252983 - Param Chloride	- SB-2 20' Flag	Result 4600	Units mg/Kg	RL 4.00
Sample: 252984 -	· SB-2 25'			
Param	Flag	Result	Units	RL
Chloride		2480	mg/Kg	4.00
Sample: 252985 -				
Param	Flag	Result	Units	RL
Chloride		289	mg/Kg	4.00
	SB-2 40'			
Sample: 252986 -				
Sample: 252986 - Param	Flag	Result	Units	RL 4.00

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Report Date: Dece	ember 22, 2010	Work Order: 10121028	Page	Number: 6 of 12
Sample: 252987	- SB-2 50'			
Param	Flag	Result	Units	RL
Chloride		217	mg/Kg	4.00
Sample: 252988	- SB-2 60'			
Param	Flag	Result	Units	RL
Chloride		754	mg/Kg	4.00
Sample: 252989	- SB-3 0-1'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 252990	- SB-3 3'			
Param	Flag	Result	Units	RL
Chloride		341	mg/Kg	4.00
Sample: 252991	- SB-3 5'			
Param	Flag	Result	Units	RL
Chloride	8	6520	mg/Kg	4.00
Sample: 252992	- SB-3 7'			
Param	Flag	Result	Units	RL
Chloride		8340	mg/Kg	4.00
Sample: 252993	- SB-3 10'			
Param	Flag	Result	Units	RL
Chloride		6810	mg/Kg	4.00
Sample: 252994	- SB-3 15'			
Sample: 252994 Param	- SB-3 15' Flag	Result	Units	RL

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Report Date: Dece	ember 22, 2010	Work Order: 10121028		Page Number: 7 of 12
Sample: 252995	- SB-3 20'			
Param	Flag	Result	Units	RL
Chloride		1040	mg/Kg	4.00
Sample: 252996	- SB-3 25'			
Param	Flag	Result	Units	RL
Chloride		3180	mg/Kg	4.00
Sample: 252997	- SB-3 30'			
Param	Flag	Result	Units	RL
Chloride		1140	mg/Kg	4.00
Sample: 252998	- SB-3 40'			
Param	Flag	Result	Units	RL
Chloride		361	mg/Kg	4.00
Sample: 252999	- SB-3 50'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 253000 -	- SB-3 60'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 253001	- SB-4 0-1'			
Param	Flag	Result	Units	RL
Chloride		7040	mg/Kg	4.00
Sample: 253002 -	- SB-4 3'			
Param	Flag	Result	Units	RL
Chloride	······································	5420	mg/Kg	4.00

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Report Date: Dece	mber 22, 2010	Work Order: 10121028	Page N	umber: 8 of 12
Sample: 253003	- SB-4 5'			
Param	Flag	Result	Units	RL
Chloride		4430	mg/Kg	4.00
Sample: 253004	- SB-4 7'			
Param	Flag	Result	Units	RL
Chloride		7040	mg/Kg	4.00
Sample: 253005	- SB-4 10'			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		5850	mg/Kg	4.00
Sample: 253006	- SB-4 15'			
Param	Flag	Result	Units	RL
Chloride		11800	mg/Kg	4.00
Sample: 253007 -	- SB-4 20'			
Param	Flag	Result	Units	RL
Chloride		7120	mg/Kg	4.00
Sample: 253008 -	- SB-4 25'			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		3000	mg/Kg	4.00
Sample: 253009 -	- SB-4 30'			
Param	Flag	Result	Units	RL
Chloride		2790	mg/Kg	4.00
Sample: 253010 -	· SB-4 40'			
Param	Flag	Result	Units	\mathbf{RL}
	~	956	mg/Kg	4.00

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Report Date: Dece	mber 22, 2010	Work Order: 10121028	Page N	umber: 9 of 12
Sample: 253011	- SB-4 50'			
Param	Flag	Result	Units	RL
Chloride		480	mg/Kg	4.00
Sample: 253012	- SB-5 0-1'			
Param	Flag	Result	Units	RL
Chloride		3540	mg/Kg	4.00
Sample: 253013 -	- SB-5 3'			
Param	Flag	Result	Units	RL
Chloride		3360	mg/Kg	4.00
Sample: 253014 -	- SB-5 5'			
Param	Flag	Result	Units	RL
Chloride		2420	mg/Kg	4.00
Sample: 253015 ·	- SB-5 7'			
Param	Flag	Result	Units	RL
Chloride		2050	mg/Kg	4.00
Sample: 253016 -	· SB-5 10'			
Param	Flag	Result	Units	RL
Chloride		2970	mg/Kg	4.00
Sample: 253017 -	· SB-5 15'			
Param	Flag	Result	Units	RL
Chloride		3280	mg/Kg	4.00
Sample: 253018 -	SB-5 20'			
Param	Flag	Result	Units	RL
Chloride		9500	mg/Kg	4.00

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Report Date: Decc	mber 22, 2010	Work Order: 10121028	Page Nu	mber: 10 of 12
Sample: 253019	- SB-5 25'			
Param	Flag	Result	Units	RL
Chloride		4220	mg/Kg	4.00
Sample: 253020	- SB-5 30'			
Param	Flag	Result	Units	RL
Chloride		609	mg/Kg	4.00
Sample: 253021	- SB-5 40'			
Param	Flag	Result	Units	RL
Chloride		2710	mg/Kg	4.00
Sample: 253022	- SB-5 50'			
Param	Flag	Result	Units	RL
Chloride		3360	mg/Kg	4.00
Sample: 253023	- SB-5 60'			
Param	Flag	Result	Units	RL
Chloride		754	mg/Kg	4.00
Sample: 253024 -	- SB-5 70'			
Param	Flag	Result	Units	RL
Chloride		1840	mg/Kg	4.00
Sample: 253025 -	- SB-6 0-1'			
Param	Flag	Result	Units	RL
Chloride		821	mg/Kg	4.00
Sample: 253026 -	- SB-6 3'			
Sample: 253026 - Param	• SB-6 3 ' Flag	Result	Units	RL

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Report Date: Dece	mber 22, 2010	Work Order: 10121028	Page Ni	mber: 11 of 1
Sample: 253027	- SB-6 5'			
Param	Flag	Result	Units	RI
Chloride		8190	mg/Kg	4.00
Sample: 253028	- 513-6 7			
Param Chloride	Flag	Result 3950	Units mg/Kg	RI 4.00
Sample: 253029 -	- SB-6 10'			
Param	Flag	Result	Units	RL
Chloride		9110	mg/Kg	4.00
Sample: 253030 -	- SB-6 15'			
Param	Flag	Result	Units	RI
Chloride		9640	mg/Kg	4.00
Sample: 253031 -	· SB-6 20'			
- Param	Flag	Result	Units	RL
Chloride		3100	mg/Kg	4.00
Sample: 253032 -	SB-6 25'			
Param	Flag	Result	Units	RL
Chloride		3490	mg/Kg	4.00
Sample: 253033 -	SB-6 30'			
Param	Flag	\mathbf{Result}	Units	RL
Chloride		992	mg/Kg	4.00
Sample: 253034 -	SB-6 40'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

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Keport Date: Deco	ember 22, 2010	Work Order: 10121028	Page N	umber: 12 of 12
Sample: 253035	- SB-6 50'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 253036		Result	L'nite	19
Sample: 253036 Param Chloride	- SB-6 60' Flag	Result <200	Units mg/Kg	RL 4.00
Param	Flag			
Param Chloride	Flag			

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Work Order: 10121029

Page Number: 1 of 11

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: December 30, 2010

Work Order: 10121029

Project Location:	Eddy Co., NM
Project Name:	COG/GJ Co-op SWD
Project Number:	114-6400524

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
253038	SB-7 0-1'	soil	2010-12-08	00:00	2010-12-10
253039	SB-7 3'	soil	2010-12-08	00:00	2010-12-10
253040	SB-7 5'	soil	2010-12-08	00:00	2010-12-10
253041	SB-7 7*	soil	2010-12-08	00:00	2010-12-10
253042	SB-7 10 ¹	soil	2010-12-08	00:00	2010-12-10
253043	SB-7 15'	soil	2010-12-08	00:00	2010-12-10
253044	SB-7 20'	soil	2010-12-08	00:00	2010-12-10
253045	SB-7 25'	soil	2010-12-08	00:00	2010-12-10
253046	SB-7 30'	soil	2010-12-08	00:00	2010-12-10
253047	SB-7 40'	soil	2010-12-08	00:00	2010-12-10
253048	SB-7 50'	soil	2010-12-08	00:00	2010-12-10
253049	SB-7 60'	soil	2010-12-08	00:00	2010-12-10
253050	SB-8 0-1'	soil	2010-12-08	00:00	2010-12-10
253051	SB-8 3'	soil	2010-12-08	00:00	2010-12-10
253052	SB-8 5'	soil	2010-12-08	00:00	2010-12-10
253053	SB-8 7'	soil	2010-12-08	00:00	2010-12-10
253054	SB-8 10'	soil	2010-12-08	00:00	2010-12-10
253055	SB-8 15'	soil	2010-12-08	00:00	2010-12-10
253056	SB-8 20'	soil	2010-12-08	00:00	2010-12-10
253057	SB-8 25'	soil	2010-12-08	00:00	2010-12-10
253058	SB-8 30'	soil	2010-12-08	00:00	2010-12-10
253059	SB-8 40'	soil	2010-12-08	00:00	2010-12-10
253060	SB-8 50'	soil	2010-12-08	00:00	2010-12-10
253061	SB-9 0-1'	soil	2010-12-08	00:00	2010-12-10
253062	SB-9 3'	soil	2010-12-08	00:00	2010-12-10
253063	SB-9 5'	soil	2010-12-08	00:00	2010-12-10
253064	SB-9 7'	soil	2010-12-08	00:00	2010-12-10
253065	SB-9 10'	soil	2010-12-08	00:00	2010-12-10
253066	SB-9 15'	soil	2010-12-08	00:00	2010-12-10
253067	SB-9 20'	soil	2010-12-08	00:00	2010-12-10
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Report Date: December 30, 2010

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Work Order: 10121029

Page Number: 2 of 11

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
253068	SB-9 25'	soil	2010-12-08	00:00	2010-12-10
253069	SB-9 30 [*]	soil	2010-12-08	00:00	2010-12-10
253070	SB-9 40 [*]	soil	2010-12-08	00:00	2010-12-10
253071	SB-9 50'	soil	2010-12-08	00:00	2010-12-10
253072	SB-9 60 ⁺	soil	2010-12-08	00:00	2010-12-10
253073	SB-10 0-1'	soil	2010-12-09	00:00	2010-12-10
253074	SB-10 31	soil	2010-12-09	00:00	2010-12-10
253075	SB-10 5'	soil	2010-12-09	00:00	2010-12-10
253076	SB-10 7 ¹	soil	2010-12-09	00:00	2010-12-10
253077	SB-10 10'	soil	2010-12-09	00:00	2010-12-10
253078	SB-10 15 ⁺	soil	2010-12-09	00:00	2010-12-10
253079	SB-10 20 [*]	soil	2010-12-09	00:00	2010-12-10
253080	SB-10 25 [*]	soil	2010-12-09	00:00	2010-12-10
253081	SB-10 30'	soil	2010-12-09	00:00	2010-12-10
253082	SB-10 40'	soil	2010-12-09	00:00	2010-12-10
253083	SB-10 50'	soil	2010-12-09	00:00	2010-12-10
253084	SB-10 60 ³	soil	2010-12-09	00:00	2010-12-10
253085	SB-11 0-1'	soil	2010-12-09	00:00	2010-12-10
253086	SB-11 3*	soil	2010-12-09	00:00	2010-12-10
253087	SB-11 5'	soil	2010-12-09	00:00	2010-12-10
253088	SB-11 7'	soil	2010-12-09	00:00	2010-12-10
253089	SB-11 10"	soil	2010-12-09	00:00	2010-12-10
253090	SB-11 15'	soil	2010-12-09	00:00	2010-12-10
253091	$SB-11 \ 20^{+}$	soil	2010-12-09	00:00	2010-12-10
253092	SB-11 25'	soil	2010-12-09	00:00	2010-12-10
253093	SB-11 30'	soil	2010-12-09	00:00	2010-12-10
253094	SB-11 40'	soil	2010-12-09	00:00	2010-12-10
253095	SB-11 50'	soil	2010-12-09	00:00	2010-12-10
253096	SB-11 60'	soil	2010-12-09	00:00	2010-12-10
253097	SB-12 0-1'	soil	2010-12-09	00:00	2010-12-10
253098	SB-12 3'	soil	2010-12-09	00:00	2010-12-10
253099	SB-12 5'	soil	2010-12-09	00:00	2010-12-10
253100	SB-12 7'	soil	2010-12-09	00:00	2010-12-10
253101	SB-12 10'	soil	2010-12-09	00:00	2010-12-10
253102	SB-12 15'	soil	2010-12-09	00:00	2010-12-10
253103	SB-12 20'	soil	2010-12-09	00:00	2010-12-10
253104	SB-12 25'	soil	2010-12-09	00:00	2010-12-10
253105	SB-12 30'	soil	2010-12-09	00:00	2010-12-10

	BTEX				TPH DRO - NEW	TPH GRC
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
253038 - SB-7 0-1'	< 0.400	<0.400	< 0.400	2.20	1120	560
253050 - SB-8 0-1'	< 0.0200	< 0.0200	< 0.0200	<0.0200	307	2.56
253061 - SB-9 0-1'	<1.00	<1.00	<1.00	5.47	3830	587
253073 - SB-10 0-1'	< 0.200	< 0.200	< 0.200	<0.200	2270	<20.0
253085 - SB-11 0-1'					<50.0	<2.00
253097 - SB-12 0-1'	< 0.100	< 0.100	< 0.100	<0.100	1040	66.7

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Report Date: December 30, 2010		Work Order: 10121029	Page	Number: 3 of 11
Sample: 253038	- SB-7 0-1'			
Param	Flag	Result	Units	RL
Chloride		6360	mg/Kg	4.00
Sample: 253039	- SB-7 3'			
Param	Flag	Result	Units	RL
Chloride		3140	mg/Kg	4.00
Sample: 253040	- SB-7 5'			
Param	Flag	Result	Units	RL
Chloride		2590	mg/Kg	4.00
Sample: 253041	- SB-7 7'			
Param	Flag	Result	Units	RL
Chloride		7810	mg/Kg	4.00
Sample: 253042	- SB-7 10'			
Param	Flag	Result	Units	RL
CU L 11				1.00
Chloride		9200	mg/Kg	4.00
Sample: 253043	- SB-7 15'	9200	mg/Kg	4.00
Sample: 253043	- SB-7 15' Flag	9200 Result	mg/Kg Units	4.00 RL
Sample: 253043	Flag	Result	Units	RL
Sample: 253043 Param Chloride Sample: 253044	Flag	Result	Units	RL
Sample: 253043 Param Chloride	Flag - SB-7 20'	Result 4580	Units mg/Kg	RL 4.00
Sample: 253043 Param Chloride Sample: 253044 Param	Flag - SB-7 20' Flag	Result 4580 Result	Units mg/Kg Units	RL 4.00 RL
Sample: 253043 Param Chloride Sample: 253044 Param Chloride	Flag - SB-7 20' Flag	Result 4580 Result	Units mg/Kg Units	RL 4.00 RL

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Report Date: Dec	ember 30, 2010	Work Order: 10121029	Page	Number: 4 of 11
Sample: 253046	- SB-7 30'			
Param	Flag	Result	Units	RL
Chloride		271	mg/Kg	4.00
Sample: 253047	- SB-7 40'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 253048	- SB-7 50'			
Param	Flag	Result	Units	RL
Chloride		290	mg/Kg	4.00
Param Chloride Sample: 253050	Flag - SB-8 0-1'	Result 271	Units mg/Kg	RL 4.00
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 253051			 .	
Param Chloride	Flag	Result 261	Units mg/Kg	RL 4.00
Sample: 253052	- SB-8 5'			······································
Param	Flag	Result	Units	\mathbf{RL}
Chloride		7640	mg/Kg	4.00
Sample: 253053	- 58-8 7			
Sample: 253053 Param Chloride	- 58-8 7 Flag	Result	Units	RL 4.00

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Report Date: Dece	mber 30, 2010	Work Order: 10121029	Page N	umber: อี of 1
Sample: 253054	- SB-8 10'			
Param	Flag	Result	Units	RI
Chloride		3180	mg/Kg	4.0
Sample: 253055	- SB-8 15'			
Param	Flag	Result	Units	RI
Chloride		9800	mg/Kg	4.0
Sample: 253056	- SB-8 20'			
Param	Flag	Result	Units	RI
Chloride		10800	mg/Kg	4.0
Sample: 253057	- SB-8 25'			
Param	Flag	Result	Units	R
Chloride		3490	mg/Kg	4.00
Sample: 253058	- SB-8 30'			
Param	Flag	Result	Units	RI
Chloride		3180	mg/Kg	4.00
Sample: 253059	- SB-8 40'			
aram	Flag	Result	Units	RI
hloride		2680	mg/Kg	4.0
ample: 253060	- SB-8 50'			
Param	Flag	Result	Units	RI
hloride		2210	mg/Kg	4.00
	- SB-9 0-1'			
ample: 253061				
ample: 253061 · 'aram	Flag	Result	Units	RJ

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Report Date: Dece	mber 30, 2010	Work Order: 10121029	Page N	umber: 6 of 11
Sample: 253062	- SB-9 3'			
Param	Flag	Result	Units	RI
Chloride		4780	mg/Kg	4.00
Sample: 253063	- SB-9 5'			
Param	Flag	Result	Units	RI
Chloride		2290	mg/Kg	4.00
Sample: 253064	- SB-9 7'			
Param	Flag	Result	Units	RL
Chloride		3550	mg/Kg	4.00
Sample: 253065	- SB-9 10'			
Param	Flag	Result	Units	RI
Chloride	5	1780	mg/Kg	4.00
Sample: 253066 · Param Chloride	- SB-9 15' Flag	Result 2310	Units mg/Kg	RL 4.00
Sample: 253067 -	- SB-9 20'			
Param	Flag	Result	Units	RL
Chloride		2580	mg/Kg	4.00
Sample: 253068 -	- SB-9 25'			
Param	Flag	Result	Units	RL
Chloride		3800	mg/Kg	4.00
	CD 0 201			
Sample: 253069 ·	- 30-8 30			
Sample: 253069 - Param	Flag	Result	Units	RL

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Report Date: Dece	mber 30, 2010	Work Order: 10121029	Page	Number: 7 of 11
Sample: 253070	- SB-9 40'			
Param	Flag	Result	Units	RL
Chloride		255	mg/Kg	4.00
Sample: 253071	- SB-9 50'			
Param	Flag	Result	Units	RL
Chloride		1320	mg/Kg	4.00
Sample: 253072	- SB-9 60'			
Param	Flag	Result	Units	RL
Chloride		568	mg/Kg	4.00
Sample: 253073	- SB-10 0-1'			
Param	Flag	Result	Units	RL
Chloride		9310	mg/Kg	4.00
Sample: 253074 -	- SB-10 3'			
Param	Flag	Result	Units	RL
Chloride		8260	mg/Kg	4.00
Sample: 253075 -	- SB-10 5'			
Param	Flag	Result	Units	RL
Chloride		6770	mg/Kg	4.00
Sample: 253076 -	- SB-10 7'			
Param	Flag	Result	Units	RL
Chloride		4150	mg/Kg	4.00
Sample: 253077 -	· SB-10 10'			
Param	Flag	Result	Units	RL
Chloride		3290	mg/Kg	4.00

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Report Date: Deco	ember 30, 2010	Work Order: 10121029	Page ?	Number: 8 of 1
Sample: 253078	- SB-10 15'			
Param	Flag	Result	Units	RI
Chloride	• •••0	3030	mg/Kg	4.0
		*** • **		
Sample: 253079	- SB-10 20'			
Param	Flag	Result	Units	RI
Chloride		7180	mg/Kg	4.0
Sample: 253080	- SB-10 25'			
Param	Flag	Result	Units	RI
Chloride		2660	mg/Kg	4.0
ample: 253081 Param Chloride	- SB-10 30' Flag	Result 2460	Units mg/Kg	R. 4.0
ample: 253082			T T 1/	
'aram 'hloride	Flag	Result 1280	Units mg/Kg	R. 4.0
ample: 253083	- SB-10 50'			
Param	Flag	Result	Units	RI
hloride		252	mg/Kg	4.0
	- SB-10 60'			
ample: 253084			Units	RI
-	Flag	Result		
aram	Flag	272	mg/Kg	
ample: 253084 Param Phloride ample: 253085			and the second se	
aram hloride			and the second se	4.00 RI 4.00

Received by OCD: 1/14/2022 10:55:49 AM

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Report Date: Dece	ember 30, 2010	Work Order: 10121029	Page N	Sumber: 9 of 11
Sample: 253086	- SB-11 3'			
Param	Flag	Result	Units	RL
Chloride		292	mg/Kg	4.00
Sample: 253087	- SB-11 5'			
Param	Flag	Result	Units	RI
Chloride		1610	mg/Kg	4.00
Sample: 253088	- SB-11 7'			
Param	Flag	Result	Units	RL
Chloride		8650	mg/Kg	4.00
Sample: 253089	- SB-11 10'			
Param	Flag	Result	Units	RI
Chloride		15600	mg/Kg	4.00
Sample: 253090 Param Chloride	- SB-11 15' Flag	Result 5800	Units mg/Kg	
Sample: 253091	- SB-11 20'			<u></u>
- Param	Flag	Result	Units	RL
Chloride	t tag	2230	mg/Kg	4.00
Sample: 253092	- SB-11 25'			
Param	Flag	Result	Units	RL
		909	mg/Kg	4.00
			· · · · · ·	
Chloride				
Chloride Sample: 253093			87	
Chloride	- SB-11 30' Flag	Result 949	Units mg/Kg	RL 4.00

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Report Date: Dece	ember 30, 2010	Work Order: 10121029	Pa	Page Number: 10 of 1		
Sample: 253094	- SB-11 40'					
Param	Flag	Result	Units	R		
Chloride		860	mg/Kg	4.0		
Sample: 253095	- SB-11 50'					
Param	Flag	Result	Units	R		
Chloride		1050	mg/Kg	4.0		
Sample: 253096	- SB-11 60'					
Param	Flag	Result	Units	RI		
Chloride		711	mg/Kg	4.0		
Sample: 253097	- SB-12 0-1'					
Param	Flag	Result	Units	RI		
Chloride		3510	mg/Kg	4.0		
Sample: 253098	- SB-12 3'					
Param	Flag	Result	Units	RI		
Chloride		4710	mg/Kg	4.00		
Sample: 253099	- SB-12 5'					
Param	Flag	Result	Units	RI		
Chloride		3140	mg/Kg	4.0		
Sample: 253100 -	- SB-12 7'					
Param	Flag	Result	Units	RI		
Chloride		3500	mg/Kg	4.0		
Sample: 253101 -	- SB-12 10'					
Param	Flag	Result	Units	RI		
Chloride		3930	mg/Kg	4.0		

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Report Date: December 30, 2010		Work Order: 10121029	Work Order: 10121029 Page Number				
Sample: 253102	- SB-12 15'						
Param	Flag	Result	Units	RL			
Chloride		3690	mg/Kg	4.00			
Sample: 253103	- SB-12 20'						
Param	Flag	Result	Units	RL			
Chloride		929	mg/Kg	4.00			
Sample: 253104	- SB-12 25'						
Param	Flag	Result	Units	\mathbf{RL}			
Chloride		303	mg/Kg	4.00			
Sample: 253105	- SB-12 30'						
Param	Flag	Result	Units	RL			
Chloride		522	mg/Kg	4.00			

Received by OCD: 1/14/2022 10:55:49 AM

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1562

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesis, NM 88210 District III 1000 Rio Brazos Rosd, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico Energy Minerals and Natural Resources

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

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

Release Notification and Corrective Action

		OPERATOR	X	Initial Report	Final Report
Name of Company COG OPERAT	ING LLC	Contact	Pat Ellis		
Address 550 W. Texas, Suite 100, 1	Midland, TX 79701	Telephone No.	432-230-0077		
Facility Name GJ South Water		Facility Type	Water Station		
Surface Owner State	Mineral Own	er		case No. (API#) losest well locat	5-10756

LOCATION OF RELEASE

Unit Letter B	Section 28	Township 17S	Range 29E	Feet from the	North/South Line	Feet from the	East/West Line	County	Eddy
1								t	

Latitude 32 48.382 Longitude 104 04.653

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 50bbis Volume Recovered 2500is					
Source of Release Injection manifold 2" coupling	Date and Hour of Occurrence Date and Hour of Discovery 03/28/2012 03:28/2012 8:00 a.m.					
Was Immediate Notice Given?	If YES, To Whom?					
By Whom? Josh Russo	Date and Hour 03/28/2012 11:46 a.m.					
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.					
If a Watercourse was Impacted, Describe Fully.*						

Describe Cause of Problem and Remedial Action Taken.*

The injection manifold 2" coupling blew odd of the line causing the release. The injection manifold has been replaced.

Describe Area Affected and Cleanup Action Taken.*

Initially 50bbls were released and we were able to recover 25bbls with a vacuum truck. The release area traveled from the location and streamed into the nearby pasture to a pooling area measuring roughly 15' x 50'. All free fluids have been recovered and the location has been scraped. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

:49 AM	Signature: Josh Russo	Approved by District Supervisor:	RVATION DIVISION
10:55:49	Title: HSE Coordinator	Approval Date:	Expiration Date:
14/2022 1	E-mail Address: jrusso@conchoresources.com	Conditions of Approval:	Attached
	Date: 04/05/2012 Phone: 432-212-2399 Attach Additional Sheets If Necessary		

			REC	EIVED
16/2 N. FROM UK., HODEL NM EX74U	of New Mex		JUN	19 2012 Form C-14
District II Energy Minera 1301 W. Grand Avenue, Artesia, NM 88210		a Resources	NMOCE	Revised October 10, 200
IDD RAD MINES KONG. AMER. NM 87410	servation Di	vision l	MACOL	ARTESIA copies to appropria District Office in accordance
THE CONTRACT DUDING TO AN ADDRESS	uth St. Franc Fe, NM 87:			with Rule 116 on bac side of for
Release Notificati			A offer	
JAW 1217 338587				
Name of Company COG OPERATING LLC 229 [37]	OPERA Contact		Pat Ellis	Initial Report 🚺 Final Rep
Address 550 W. Texas, Suite 100, Midland, TX 79701	Telephone		2-230-0077	
Facility Name GJ West Coop Unit #074	Facility Ty	×	Well	
Surface Owner State Mineral Owner	a		L	ease No. (API#) 30-015-25492
LOCATI	ON OF RE	LEASE		
Unit Letter Section Township Range Feet from the No H 28 17S 29E Feet from the No	rth/South Line	Feet from the	East/West	Line County Eddy
Latitude 32 48.40	0 Longit	ide (04 04_52	7	
NATUR	E OF REL	EASE		
Type of Release Produced water Source of Release casing		Release 15 bl		lume Recovered 12 bbls
	06/06/201			te and Hour of Discovery /06/2012 8:30 a.m.
Was Immediate Notice Given?	If YES, To	Whom?		
By Whom?	Date and H			
Was a Watercourse Reached?	IFYES, V	olume Impacting	g the Watercol	urse.
If a Watercourse was Impacted, Describe Fully.				
a a materiorense was informed, souscite i asy.				
Describe Cause of Problem and Remedial Action Taken.*	·			
The well developed a hole in the casing, allowing water flow from injo	ction wells . A o	terms has been	alsond on the s	meins the well has been turned in for
repair.		eenih nen oorn (and the west has been mined in the
Describe Area Affected and Cleanup Action Taken.*				
15 bbls of produced water was released from the hole in the casing and location and the location has been scraped. Tetra Tech will sample the we will present a remediation work plan to the NMOCD for approval p	spill area on the	pad to delineat	e any possible	
I hereby certify that the information given above is true and complete (the best of my	knowledge and	understand th	at manual to NMOCD poles and
regulations all operators are required to report and/or file certain release	notifications a	nd perform corr	active actions	for releases which may endanger
public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed				
r the environment. In addition, NMOCD acceptance of a C-141 report ederal, state, or local laws and/or regulations.	t does not reliev	e the operator o	(responsibility	y for compliance with any other
		OIL COM	SERVAT	TON DIVISION
Signature: Contract 15				11
Printed Name: Josh Russo	Approved by	District Superv	isor: Signed	By Mike Brannen
Title: HSE Coordinator	Approval Dat	UN 21	2012	ration Date:
E-mail Address: jrusso@conchoresources.com	Conditions of	Approval:		Attached
Date: 06/19/2012 Phone: 432-212-2399 Ittach Additional Sheets If Necessary	L			200 1100
Remediation pe	r OCD Rules	&		2RP-1182
Guidelines. SUBMIT				
PROPOSAL NOT LAT	ER THAN:			
<u> </u>				

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District 1 1625 N. French Dr., Hobbs, NM 88240 District 11 1301 W. Grand Avenue, Anesia, NM 88210 <u>District 111</u> 1000 Rin Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. SL Francis Dr., Sonta Fe, NM 87505

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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

1362

Release Notification and Corrective Action

						OPERA"	FOR		🛛 Initia	al Report		Final Report
Name of Co		COG OP			Contact		at Ellis					
Address 550 W. Texas, Suite 100, Midland, TX 79701						Telephone 1		<u>230-007</u>	17			
Facility Nar	ne	GJ West C	Coop Tru	nkline	[]	Facility Typ	e Trus	hkline				
Surface Ow	ner State	:		Mineral C	wner				Lease N Wells ti	lo. (API#) ed into urunki		0-015-25492 0-015-03163
·				LOCA	TION	OF RE	LEASE					
Unit Letter B	Section 28	Township 175	Range 29E	Feet from the	North/	South Line	Feet from the	East W	est Line	County	iddy	
	Latitude 32 48.700 Longitude 104 04.642											
		<u> </u>	1.1 11	NAT	URE	OF REL			Maluma P	hanning 7	1.1.	
Type of Rele Source of Re	ase Produc	ed water w/ s	kim oil				Release 10bbls			tecovered 21 Hour of Disc		
Source of Re		(III)C				07/09/2012		•		2 3:20 p.m.	onery	
Was Immedia	te Notice (Yes 🛛	No 🛛 Noi Ro	auired	If YES, To	Whom?					
By Whom?						Date and H						
Was a Walen	ourse Read	hed?					lume Impacting (he Water	rcourse.			
			Yes 🛛	No								
If a Watercou	rse was Im	pacted, Descri	be Fully.*	1								
Describe Cau	se of Proble	and Reme	tial Action	Taken.*								
Corrasion cau	ised a hole (o develop in (our GJ We	st Coop Unit #74	and #12	5 trunkline.	We are in the pro	cess of r	eplacing t	he corroded s	acel flo	owline.
Describe Area	Affected a	Ind Cleanup A	ction Tak	cn,*								
spill site area any significan	to delineate it remediati	any possible on work.	contamina	the corroded flow ution from the rele	ase and	we will pres	ent a remediation	work pla	in to the N	MOCD for a	provi	ıl prior to
regulations all public health should their o	operators i or the envir perations hi ment. In ad	re required to onment. The rve failed to a Idition, NMO	report an acceptance dequately CD accept	is true and compl d/or file certain re e of a C-141 report investigate and re ance of a C-141 r	lease no n by the mediate	tifications an NMOCD ma	d perform correct inked as "Finat Re on that pose a thre the operator of r	tive action port" do tat to groupsib	ons for rele es not reli ound water oility for co	esses which r eve the opera , surface wat ampliance wi	nay en itor of cr, hun th any	danger liability nan health
		7 1	$\overline{}$				OIL CONS	SERV/	ATION_	DIVISIO	<u>N</u>	
Signature:		<u>~ </u>		<u>></u>								-
Printed Name	:	Josh	^	pproved by	District Superviso							
Title:		HSE Co	ordinator		A	pproval Date		E	xpiration I	Date:		
E-mail Addres	55:	irusso@concl	loresource	s.com	c	anditions of	Approval:			Attached		
Date: 07/12 Attach Additi	2/2012 ional Shee	Phone: ts If Necessa		12-2399						1		

Energy Minerals and Natural Resource Proceedings Different Bir W. Coad Arene, Aresia, NN 18310 Different Bir W. Coad Arene, Aresia, NN 18310 Different Bir W. Coad Arene, Aresia, NN 18310 Different Bir W. Coad Arene, Aresia, NN 18310 Different Bir M. Coad Arene, Aresia, NN 18310 Different Bir M. Coad Arene, Aresia, NN 18310 Different Bir W. Coad Arene, Ares, NN 18300 Different Bir M. Stanta Fe, NM 18305 NMOCD ARTES(MARC) Coales to an over whith Rule 116 Different Bir M. Coad Arene, Ares, NN 18300 Release Notification and Corrective Action Number of Company Coad OPERATION Mineral Orange J. Marke of Company COG OPERATING LLC 22(7):32 Contact Pacific Division 120:32:03:00:07 Feeling No. Stafface Owner State Mineral Owner Lecase No. (AFIG) 30:01 Unit Letter Section Township Range C Pacific Division 120:20:00:07 Stafface Owner State Mineral Owner LoccATION OF RELEASE Volume Resourced Slobb Unit Letter Section Township Range C Pacific Division 10:00:00:12 Unit Letter Section No Mineral Owner Volume Resourced Slobb Unit Letter Section No												
Data J. State of New Mixico DCT 2 5 2012 Form Press Difficult Difficult Difficult Difficult NMOCD ARTES(ASC) NMOCD ARTES(ASC) Difficult Difficult Difficult Difficult NMOCD ARTES(ASC) NMOCD ARTES(ASC) Difficult Difficult Difficult Difficult NMOCD ARTES(ASC) NMOCD ARTES(ASC) Topologic Difficult Difficult Difficult NMOCD ARTES(ASC) NMOCD ARTES(ASC) Topologic Company COG 0PERATING LLC 22(7)2 Context Pacificity Type Stell Flowline Difficult												
Id21 N reach Dr., Hobb, NN 8240									RE	CEIV	ED	
100 W. Grand Avener, Antisi, NM 18210 Difficult Difficult 120 Standing Difficult 120 Standing Difficult 120 Standing Difficult <	1625 N. French	Dr., Hobbs,	NM 88240						00	T 2 5 2	012	Form
Data Difference 1220 String St. Prancip Dr. Sama Pr. NN 17393 Santa Fe. NN 87505 with Kuie II Difference Santa Fe. NN 87505 String St. NN 87505	1301 W. Grand District III	-)					NMO			
Notification and Corrective Action Name of Corrective Action Address Softwitter Coorrective Action Locat Covered Felses Unit Letter Locat from the Marcial Overe Base of Hone Covered Softwitter Covered	District IV			5	1220	South	n St. Franc	lis Dr.			District (wi	Office in accor th Rule 116 of side o
JAM/12.311.3.0.3.8.4 OPERATOR ☑ Initial Report ☐ Fin: Name of Company COG DPERATING LLC ZZ9/1.32 Contact Pat Ellis Address Solution 432.330-0077 Facility Name GJ West Coop Trunkline Facility Type Stells flowline Joint Surface Owner State Mineral Owner Lease No. (API/#) Joints Unit Letter Socion Township Regs Feet from the North/South Line Feet from the Lease No. (API/#) Joints Unit Letter Socion Township Regs Feet from the North/South Line Feet from the Lease No. (API/#) Joints Unit Letter Socion Township Regs Feet from the North/South Line Feet from the Last North Cocurry Eddy Unit Letter Socion Township Regs North/South Line Feet from the Date and Hour of Discovery Joints of Discovery					· · · · ·				Actio			
Address 350 W. Terass, Suite 100, Midland, TX 19701. Telephone No. 432-230-0077 Facility Name Gi West Coop Trunkline Facility Type Steel Flowline Surface Owner State Mineral Owner Lease No. (API#) 30-015 Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County Lost Letter 28 Township Range Feet from the Peet from the East/West Line County Lost Carlino OF RELEASE Township Range Feet from the Date ond Hour of Discovery Eddy Was Immediate Notice Given? Use Steel line Date and Hour of Discovery 1009/2012 1009/2012 11:30 a m. Was Immediate Notice Given? U Yes Sto No If Yes, Yolume Impacting the Watercourse. If Yes, Yolume Impacting the Watercourse. If Storey Masterourse was impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Due to corrosion, a hole developed in a steel flowline causing the release of fluid. A temporary clamp has been installed on the clamp until the line or replaced. If a Watercourse was impacted, Describe Fully.* Describe Acrea Affected and Cleanup Action Taken.* If Steest 60 bedinces any po	nJML	123		84							al Report	Final
Facility Name GJ West Coop Trunkline Facility Type Steel Flowline Surface Owner State Mineral Owner Lease No. (API#) 30-015 Wells tied into functions 30-015 Wells tied into functions 30-015 Unit Letter Section Towaship Range 28 Feet from the 29E Feet from the North/South Line Feet from the East/West Line County Eddy Unit Letter Section Towaship Range 29E Feet from the 29E Feet from the North/South Line Feet from the East/West Line County Eddy Unit Letter Section Towaship Range Feet from the North/South Line Feet from the East/West Line County Eddy Unit Letter Section Towaship Range Feet from the North/South Line Feet from the East/West Line County Eddy Unit Section Wastercourse Wastercourse Values of Release Values of Release Table 100/97/012 10/97/2012 11/30.9 m. If a Watercourse Reached? Yes Ø No												
Wells side into trunkline 30-01: LOCATION OF RELEASE Unit Letter Section Township Range Section in the North/South Line Feet from the Option of Release 7.bbls Volume Resevered Sobie Was a Watercourse Sited line West Nort Regured If VES, To Whom? If VES, To Whom? If VES, To Whom? If VES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Due to corrosion, a hole developed in a steel flow fine causing the release of fluid. A temporary clamp has been installed on the clamp until the tine of parroval prio my significant comercial in the work onten. If Watercourse was Impacted, Dira and Hour of Discourse												
Unit Letter Section Township Range 23E Feet from the East/West Line Chunty Latitude 32.8101 Longtrude 104.0761 NATURE OF RELEASE Township Name Subject	Surface Ow	ner State			Mineral O	wher						30-015-2 ine 30-015-0
B 28 175 29E Eddy Latitude 32.8101 Longfrude 104.0761 NATURE OF RELEASE Type of Release Froduced water w'skim oil Volume of Release Yolume Recovered Sbbis Source of Release Steel line Date and Hour of Occurrence D												
NATURE OF RELEASE Type of Release Produced water w' skim oil Volume Recovered Subis Source of Release Steel line Date and Haur of Decurrence Date and Haur of Discovery Was Immediate Notice Given? IVES No IV YES, To Whom? Date and Hour IV YES, To Whom? Was a Watercourse Reached? IV YES No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* If YES, Volume Impacting has been installed on the clamp until the line or replaced. Describe Cause of Problem and Remedial Action Taken.* Initially 7bbls of produced fluids were released from the corroded line and we were able to recover 3bbls with a vacuum truck. Tetra Tech will samp significant remediation work. Describe Area Affected and Cleanup Action Taken.* Initially 7bbls of produced fluids were released from the corroded line and we were able to recover 3bbls with a vacuum truck. Tetra Tech will samp significant remediation work. It hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules an regulations all operators are required to report by the NMOCD more actions for releases which may endange public health or the environment. The acceptance of a C-141 report does not releve the operator of responsibility for compliance with any other tiden. Austore regulation req					Feet from the	North/	South Line	Fect from the	East	West Line		ddy
NATURE OF RELEASE Type of Release Produced water w' skim oil Volume Recovered Subis Source of Release Steel line Date and Haur of Decurrence Date and Haur of Discovery Was Immediate Notice Given? IVES No IV YES, To Whom? Date and Hour IV YES, To Whom? Was a Watercourse Reached? IV YES No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* If YES, Volume Impacting has been installed on the clamp until the line or replaced. Describe Cause of Problem and Remedial Action Taken.* Initially 7bbls of produced fluids were released from the corroded line and we were able to recover 3bbls with a vacuum truck. Tetra Tech will samp significant remediation work. Describe Area Affected and Cleanup Action Taken.* Initially 7bbls of produced fluids were released from the corroded line and we were able to recover 3bbls with a vacuum truck. Tetra Tech will samp significant remediation work. It hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules an regulations all operators are required to report by the NMOCD more actions for releases which may endange public health or the environment. The acceptance of a C-141 report does not releve the operator of responsibility for compliance with any other tiden. Austore regulation req	· · · · · · · · · · · · · · · · · · ·	Į	<u></u>		Latitude 37	8101	Longit	Ide 104.0761	<u> </u>		L	·
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regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endange public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of flabilit should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human he for the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other rederal, state, or local laws and/or regulations Signature: OIL CONSERVATION DIVISION Printed Name: Josh Russo Approved by District Supervisor: Signature: Instruction of a C-141 report does not relieve the operator of responsibility for compliance with any other rederal, state, or local laws and/or regulations OIL CONSERVATION DIVISION Signature: Instruct Responsibility for compliance with any other state is ground water, surface water, human he or the environment. Intel Name: Josh Russo Approved by District Supervisor: Finite: HSE Coordinator Approval Mate: 0 6 2012 Expiration Date: Intel: Interse does not relieve the operator of Approval Attached Intel State: 0 Conditions of Approval Attached Intel State: 0 Conditions of Approval										F.4		
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or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other regulations OIL CONSERVATION DIVISION Signature: OIL CONSERVATION DIVISION Approved by District Supervisor: Mile Supervice Orinted Name: Josh Russo Printed Name: Josh Russo Approved by District Supervisor: Signed By Fittle: HSE Coordinator E-mail Address: jrusso@conchoresources.com Conditions of Approval Attached I Date: 10/24/2012 Phone: 432-212-2399 Attached II Necessary Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION	should their of	perations ho	ive failed to ad	lequately	investigate and ren	nediate	contaminatio	in that pose a thi	cat to gre	ound water,	surface wate	r, human heal
Signature: OIL CONSERVATION DIVISION Printed Name: Josh Russo Signed By Mild Brancus E-mail Address: jrusso@conchoresources.com Conditions of Approval Date: 10/24/2012 Phone: 432-212-2399 Attached D Printed Bar 2RP-138 Guidelines. SUBMIT REMEDIATION 2RP-138	or the environ	ment. In ad	Idition, NMOC	D accept	ance of a C-141 re	port do	es not relieve	the operator of	responsil	fility for co	mpliance wit	h any other
Printed Name: Josh Russo Approved by District Supervisor: Signed By Mile Summer Fitle: HSE Coordinator Approval UAV: 0 6 2012 Expiration Date: E-mail Address: jrusso@conchoresources.com Conditions of Approval: Attached Image: 10/24/2012 Date: 10/24/2012 Phone: 432-212-2399 Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION 2RP-138		/	16	7		Τ		OIL CON	SERV	ATIONI	DIVISION	1
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Fitte: HSE Coordinator Approval Unit: U 6 ZU12 Expiration Date: E-mail Address: jrusso@cunchoresources.com Conditions of Approval Attached Attached Image: At	Printed Name:	<u> </u>	Josh R	lusso					Sign	ed By 7	U1/4 D	famelise.
Date: 10/24/2012 Phone: 432-212-2399 Attach Additional Sheets If Necessary Remediation per OCD Rules & 2RP-138 Guidelines. SUBMIT REMEDIATION			HSE_Cor	ordinator		A	pproval Dat	06 2012				
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Remediation per OCD Rules & ZRIE () 0 Guidelines. SUBMIT REMEDIATION				N L	437-712-7300							
	Date: 10/				432-212-2393							A
	E-mail Addres Date: 10/				432-512-2333		Remed	ation per OC	D Ruie	s &	ZRP-	138-
1 br. (0, 21)12	mail Addres				432-212-2395		uidelines.	SUBMIT REP			ZRP-	138
	i-mail Addres						uidelines.	SUBMIT REP			ZRP-	138

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

Page 81 of 111

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

Released to Imaging: 3/4

Attached

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

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Repor
Name of Company COG Operating LLC	Contact Robert McNeil		
Address 600 West Illinois Avenue, Midland, Texas 79701	Telephone No. (432) 230-0077		
Facility Name GJ West Coop South Water Distribution Site	Facility Type Tank Battery		

Surface Owner: State	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
В	23	17S	29E						Eddy
				20 C					

Latitude N 32.81225 Longitude W 104.0774

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release 100 bbls	Volume Recovered 10 bbls
Source of Release Transfer Pump	Date and Hour of Occurrence 05-06-2010	Date and Hour of Discovery 05-06-2010 4:00p.m.
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 📋 No 🗌 Not Required	Mike Bratcher-OCD	
By Whom? Josh Russo	Date and Hour 05-07-2010 9:25 a	.m.
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.
🗌 Yes 🖾 No	N/A	
If a Watercourse was Impacted, Describe Fully.*		
N/A		
Describe Cause of Problem and Remedial Action Taken.*		
A swedge broke off the water transfer pump. The swedge has been repair	ed and the pump has been put back ir	service.
Describe Area Affected and Cleanup Action Taken.*	÷	
Tetra Tech inspected site and collected samples to define spills extent. Set proper disposal if accessible. Liners were installed according to the work Tech prepared closure report and submitted to NMOCD for review.		
I hereby certify that the information given above is true and complete to the	he best of my knowledge and underst	and that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release n		
public health or the environment. The acceptance of a C-141 report by the		
should their operations have failed to adequately investigate and remediate		
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respon	
federal, state, or local aws and/or regulations.		V.
Signature:	OIL CONSERV	VATION DIVISION 12:87:01 2007
Printed Name: Ike Tavarez (Agent In COC)	Approved by District Supervisor:	2 10:
Title: Project Manager, P.G.	Approval Date:	Expiration Date:

Conditions of Approval:

Date: D11119 Phone: (432) 687-8110 Attach Additional Sheets If Necessary

E-mail Address: ike.tavarez@tetratech.com

1/14/2022 10:55:49 AM

Received by QCD:

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	

Page 82 of 111

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

Released

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

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Repor
Name of Company COG Operating LLC	Contact Robert McNeil	· · · -	
Address 600 West Illinois Avenue, Midland, Texas 79701	Telephone No. (432) 230-0077	-	
Facility Name GJ West Coop Unit South Water Distribution	Facility Type Injection Line		
Site	<u> </u>		<u> </u>

Surface Owner: State	Mineral Owner	Lease No. 30-015-10756
and the second se		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
В	28	175	29Ē			Ξ.			Eddy

Latitude N 32 48.655 Longitude W 104 04.555

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release 100 bbls	Volume Recovered 50 bbls
Source of Release Nipple off of injection line 90	Date and Hour of Occurrence 09-17-2010	Date and Hour of Discovery 09-17-2010 2:00p.m.
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🔲 No 🔲 Not Required	Mike Bratcher-OCD	
By Whom? Josh Russo	Date and Hour 09-17-2010 5:57 p	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	itercourse.
🗌 Yes 🛛 No	N/A	
If a Watercourse was Impacted, Describe Fully.*		
N/A		
Describe Cause of Problem and Remedial Action Taken.*		
Describe Cause of Problem and Keinedial Action Taken,		
A nipple came loose off of the 90 on the injection line. All old fittings w	vere replaced with new fittings	
Describe Area Affected and Cleanup Action Taken.*		
Tetra Tech inspected site and collected samples to define spills extent. So proper disposal if accessible. Liners were installed according to the work Tech prepared closure report and submitted to NMOCD for review.	elected areas with soils that exceeded plan. Site was then brought up to surf	RRAL were removed and hauled away for face grade with clean backfill material. Tetra
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release	the best of my knowledge and underst patifications and perform corrective a	and that pursuant to NMOCD rules and
public health or the environment. The acceptance of a C-141 report by the	he NMOCD marked as "Final Report"	does not relieve the operator of liability
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to	ground water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report (does not relieve the operator of respon	sibility for compliance with any other
federal, state, or local Jaws and/or regulations.		
	<u>OIL CONSER</u>	VATION DIVISION
Signature:		0:4
	Approved by District Supervisor:	21
Printed Name: Ike Tavarez (Agut fu COC)		202
Title: Project Manager, P.G.	Approval Date:	Expiration Date:
The. Hojeet Manager, F.G.	Approval Date.	
E-mail Address: ike.tavarez@tetratech.com	Conditions of Approval:	Attached
Date: 12/11/14 Phone: (432) 687-8110		VATION DIVISION 7:87:01 Expiration Date: 2007/100 Attached 380
Attach Additional Sheets If Necessary		10

Received by OCD: 1/14/2022 10:55:49 AM

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

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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

Lease No. 30-015-10756

Release Notification and Corrective Action

OPERATOR	Initial Report	Final Repor
Contact Robert McNeil		
Telephone No. (432) 230-0077		
Facility Type Water Station		
	Contact Robert McNeil Telephone No. (432) 230-0077	Contact Robert McNeil Telephone No. (432) 230-0077

Surface Owner: State Mineral Owner

LOCATION OF RELEASE

Unit Letter B	Section 28	Township 17S	Range 29E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy	

Latitude N 32 48.382 Longitude W 104 04.653

NATURE OF RELEASE Volume of Release 50 bbls Volume Recovered 25 bbls Type of Release: Produced water Source of Release Injection manifold 2" coupling Date and Hour of Occurrence Date and Hour of Discovery 03-28-2012 03-28-2012 8:00a.m. Was Immediate Notice Given? If YES, To Whom? 🛛 Yes 🔲 No 🗌 Not Required **Mike Bratcher-OCD** By Whom? Josh Russo Date and Hour 03-28-2012 11:46 a.m. Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. 🗌 Yes 🖾 No N/A If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* The injection manifold 2" coupling blew odd of the line causing the release. The injection manifold was replaced. Describe Area Affected and Cleanup Action Taken.* Tetra Tech inspected site and collected samples to define spills extent. Selected areas with soils that exceeded RRAL were removed and hauled away for proper disposal if accessible. Liners were installed according to the work plan. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

- L	rederar, state, or local gives and/or regulations.			
5:49 AN	Signature: M	OIL CONSER	VATION DIVISION	48:21 A
10:55	Printed Name: Ike Tavarez Aggar Ju COG	Approved by District Supervisor:	1	22 10:4
2022	Title: Project Manager, P.G.	Approval Date:	Expiration Date:	4/20.
1/14/	E-mail Address: ike.tavarez@tetratech.com	Conditions of Approval:	Attached	ng: 3/
<u>e</u>	Date: 0/11/19 Phone: (432) 687-8110			lagi
0	Attach Additional Sheets If Necessary			Im
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District I State of S					
	f New Mexico		Form C-14		
1301 W. Grand Avenue, Artesia, NM 88210	s and Natural Resources		Revised October 10, 20 Submit 2 Copies to appropria		
1000 Rio Brazos Road, Aztec, NM 87410	rvation Division th St. Francis Dr.		Submit 2 Copies to appropria District Office in accordance with Rule 116 on bac		
	Fe, NM 87505		side of for		
Release Notification	on and Corrective Act	ion			
Name of Company, COC Operating LLC	OPERATOR Contact Robert McNeil	🔲 Initia	l Report 🛛 Final Rep		
Name of Company COG Operating LLC Address 600 West Illinois Avenue, Midland, Texas 79701	Telephone No. (432) 230-007	7			
Facility Name GJ West Coop Unit #074	Facility Type Well				
Surface Owner: State Mineral Owner		Lease N 30-015-	lo. 30-015-25492 03163		
LOCATIC	N OF RELEASE	· · · · · · · · · · · · · · · · · · ·			
Unit Letter Section Township Range Feet from the Nort H 28 17S 29E Feet from the Nort	h/South Line Feet from the E	ast/West Line	County Eddy		
Latitude N 32.8122	5° Longitude W 104.0774°	!			
	E OF RELEASE				
Type of Release: Produced water w/skim oil	Volume of Release 15 bbls	Volume R	ecovered 12 bbls		
Source of Release casing	Date and Hour of Occurrence		Hour of Discovery		
Was Immediate Notice Given?	06-06-2012 06-06-2012 8:30a.m. If YES, To Whom?				
By Whom?	Date and Hour				
Was a Watercourse Reached?	If YES, Volume Impacting the V	Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					
N/A					
Describe Cause of Problem and Remedial Action Taken.*					
The well developed a hole in the casing, allowing water flow from inject	ion wells. A clamp was placed on t	he casing and th	e well was turned in for repair		
Describe Area Affected and Cleanup Action Taken.*					
Tetra Tech inspected site and collected samples to define spills extent. So proper disposal if accessible. Liners were installed according to the work Tech prepared closure report and submitted to NMOCD for review.					
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediation the environment. In addition, NMOCD acceptance of a C-141 report for factors are required to report and/or previous conference of a C-141 report of the environment.	notifications and perform corrective he NMOCD marked as "Final Repo tte contamination that pose a threat t	actions for rele rt" does not relie to ground water,	ases which may endanger eve the operator of liability , surface water, human health		
federal, state, or local-hws and/or regulations.					
Signature: (Printed Name: Ike Tavarez (Agent In COG)	OIL CONSERVATION DIVISION Int fulloc Approved by District Supervisor: Approval Date:				
Title: Project Manager, P.G.	Approval Date:	Expiration Date:			
E-mail Address: ike.tavarez@tetratech.com	Conditions of Approval:		Attached		
Date: Phone: (432) 687-8110 Attach Additional Sheets If Necessary					
Anach Audhonai Sheets II Necessaly					
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S District
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

Received by OCD: 1/14/2022 10:55:49 AM

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

Released

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

Release Notification and Corrective Action

	OPERATOR	Initial Report	\boxtimes	Final Repo
Name of Company COG Operating LLC	Contact Robert McNeil			
Address 600 West Illinois Avenue, Midland, Texas 79701	Telephone No. (432) 230-0077			
Facility Name GJ West Coop Trunkline	Facility Type Trunkline			

Surface Owner: State	Mineral Owner	Lease No. 30-015-25492
		30-015-03163

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
В	28	17S	29E					Eddy	
	!								

Latitude N 32.81225° Longitude W 104.0774°

NATURE OF RELEASE

Type of Release: Produced water w/skim oil	Volume of Release 10 bbls	Volume Recovered 2 bbls			
Source of Release Trunkline	Date and Hour of Occurrence 07-09-2012	Date and Hour of Discovery 07-09-2012 3:20a.m.			
Was Immediate Notice Given?	If YES, To Whom?				
🗌 Yes 🛛 No 🖾 Not Required					
By Whom?	Date and Hour 8-15-2013 10.03an				
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.			
🗌 Yes 🛛 No	N/A				
If a Watercourse was Impacted, Describe Fully.*					
N/A	10				
\$ 1) # \$					
Describe Cause of Problem and Remedial Action Taken.*					
Corrosion caused a hole to develop in our GJ West Coop Unit #74 and #	125 trunkling. We are in the process of	Freelesing the corrected steel flowling			
Corrosion caused a noie to develop in our GJ west Coop Onit #74 and #	r25 trunkinie. we are in the process o	replacing the corroded steel nowine.			
Describe Area Affected and Cleanup Action Taken.*					
-					
Tetra Tech inspected site and collected samples to define spills extent. Se					
proper disposal if accessible. Liners were installed according to the work	plan. Site was then brought up to surf	ace grade with clean backfill material. Tetra			
Tech prepared closure report and submitted to NMOCD for review.					
I hereby certify that the information given above is true and complete to t	the best of my knowledge and understa	and that pursuant to NMOCD rules and			
regulations all operators are required to report and/or file certain release it	notifications and perform corrective ac	tions for releases which may endanger			
public health or the environment. The acceptance of a C-141 report by the	ne NMOCD marked as "Final Report"	does not relieve the operator of liability			
should their operations have failed to adequately investigate and remedia		ground water, surface water, human health			
or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local Jaws and/or regulations.	does not reneve the operator of respon	sibility for compliance with any other			
rederat, state, or local area and or regulations.	OIL CONSERV	VATION DIVISION			
	<u>OIL CONDER</u>				
Signature:		10.			
Approved by District Supervisor:					
Printed Name: Ike Tavarez Agent Jo COG					
Title: Project Manager, P.G.	Approval Date:	Expiration Date:			
		00			
E-mail Address: ike.tavarez@tetratech.com	Conditions of Approval:	Attached			
Date: Phone: (432) 687-8110 Attach Additional Sheets If Necessary		Expiration Date: State Attached 9			
Autorn Auditional Sheets II Neucosal V		100 Tes			

86 of 111			
8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
1625 N. French Dr., Hobbs, NM 88240	f New Mexico	Form C-141	
1301 W. Grand Avenue, Artesia, NM 88210	s and Natural Resources	Revised October 10, 2003 Submit 2 Copies to appropriate	
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 Sou	ervation Division th St. Francis Dr.	Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back	
	Fe, NM 87505	side of form	
Release Notification	on and Corrective Actio		
Name of Company COG Operating LLC	OPERATOR Contact Robert McNeil	Initial Report I Final Repor	
Address 600 West Illinois Avenue, Midland, Texas 79701 Facility Name GJ West Coop Trunkline	Telephone No.(432) 230-0077Facility TypeSteel Flowline		
Surface Owner: State Mineral Owner		Lease No. 30-015-25492 30-015-03163	
LOCATIO	ON OF RELEASE		
Unit LetterSectionTownshipRangeFeet from theNorB2817S29E	th/South Line Feet from the Eas	t/West Line County Eddy	
Latitude N 32.8122	5° Longitude W 104.0774°	· · · · · · · · · · · · · · · · · · ·	
NATUR	E OF RELEASE	9e	
Type of Release: Produced water w/skim oil	Volume of Release 7 bbls	Volume Recovered 5 bbls	
Source of Release Steel line	Date and Hour of OccurrenceDate and Hour of Discovery10-09-201210-09-201211:00a.m.		
Was Immediate Notice Given?	If YES, To Whom?		
By Whom?	Date and Hour 8-15-2013 10.03am If YES, Volume Impacting the Watercourse.		
Was a Watercourse Reached?	N/A	atercourse.	
If a Watercourse was Impacted, Describe Fully.*			
N/A			
Describe Cause of Problem and Remedial Action Taken.*			
Due to corrosion, a hole developed in a steel flowline causing the release	e of fluid. A temporary clamp has beer	n installed on the clamp until the line can be	
replaced.		•	
Describe Area Affected and Cleanup Action Taken.*			
Tetra Tech inspected site and collected samples to define spills extent. S proper disposal if accessible. Liners were installed according to the work Tech prepared closure report and submitted to NMOCD for review.			
I hereby certify that the information given above is true and complete to			
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t	he NMOCD marked as "Final Report"	does not relieve the operator of liability	
should their operations have failed to adequately investigate and remedi- or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	ate contamination that pose a threat to does not relieve the operator of respon		
h. S	OIL CONSER	VATION DIVISION	
Signature:	Annual by District Constraint	VATION DIVISION	
Printed Name: Ike Tavarez (Agart Su COG)	Approved by District Supervisor:	3/4/20	
Title: Project Manager, P.G.	Approval Date:	Expiration Date:	
E-mail Address: ike.tavarez@tetratech.com	Conditions of Approval:	Attached Date:	
Date: Date: Phone: (432) 687-8110	2	d to	
Received		lease	
Re		Re	

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APPENDIX B

Water Well Data Average Depth to Groundwater (ft) COG - GJ West Coop Eddy County, New Mexico

	16	South		28 Eas	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 61	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	17	South	2	28 Eas	t
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	33	34	35	36

28 East

16	South	:	29 Eas	t
5	4	3	2	1
8	9	10	11	12
17	16	15	14	13
20	21	22	23	24
29	28	27	26	25
32	33	34	35	36
	5 8 17 20 29	8 9 17 16 20 21 29 28	5 4 3 8 9 10 17 16 15 20 21 22 29 28 27	5 4 3 2 8 9 10 11 17 16 15 14 20 21 22 23 29 28 27 26

	17 Sc	outh	:	29 East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 80	23	24
30	29 210 208'	28	27	26	25
31	32	33	34	35 153	36

18 South

	16	South	n 30 East		
6	5	4	3	2	
7	8	9	10	11	
18	17	16	15	14	
19	20	21	22	23	
30	29	28	27	26	
31	32	33	34	35	

	17	South	:	30 East		
6	5	4	3	2		
7	8	9	10	11		
18	17	16	15	14		
19	20	21	22	23		
30	29	28	27	26		
31	32	33	34	35		

í	1	100			
	29	East			1
	3	2	1	6	5
	10	11	12	7	8
1	15	14	13	18	17
	22	23	24	19	20
	27	26	25	30	29
	34	35	36	31	32

	18 Sc	30	East	
6	5	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35



New Mexico State Engineers Well Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

18 South

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APPENDIX C

Report Date: June 9, 2010

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Work Order: 10052814

Page Number: 1 of 6

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: June 9, 2010

Work Order: 10052814

Project Location: Eddy County, NM

Project Name: COG/GJ West Co-op South Water Distribution Project Number: 114-6400524

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
233113	AH-1 0-1'	soil	2010-05-24	00:00	2010-05-27
233114	AH-1 1-1.5 ²	soil	2010-05-24	00:00	2010-05-27
233115	AH-1 2-2.5'	soil	2010-05-24	00:00	2010-05-27
233116	AH-1 3-3.5'	soil	2010-05-24	00:00	2010-05-27
233117	AH-1 4-4.5'	soil	2010-05-24	00:00	2010-05-27
233118	AH-1 5-5.5'	soil	2010-05-24	00:00	2010-05-27
233119	AH-1 6-6.5'	soil	2010-05-24	00:00	2010-05-27
233120	AH-1 7-7.5'	soil	2010-05-24	00:00	2010-05-27
233121	AH-1 8-8.5'	soil	2010-05-24	00:00	2010-05-27
233122	AH-1 9-9.5 ³	soil	2010-05-24	00:00	2010-05-27
233123	AH-2 0-1'	soil	2010-05-24	00:00	2010-05-27
233124	AH-2 1-1.5'	soil	2010-05-24	00:00	2010-05-27
233125	AH-2 2-2.5	soil	2010-05-24	00:00	2010-05-27
233126	AH-2 3-3.5'	soil	2010-05-24	00:00	2010-05-27
233127	AH-2 4-4.5'	soil	2010-05-24	00:00	2010-05-27
233128	AH-2 5-5.5'	soil	2010-05-24	00:00	2010-05-27
233129	AH-2 6-6.5*	soil	2010-05-24	00:00	2010-05-27
233130	AH-2 7-7.5'	soil	2010-05-24	00:00	2010-05-27
233131	AH-2 8-8.5'	soil	2010-05-24	00:00	2010-05-27
233132	AH-2 9-9.5'	soil	2010-05-24	00:00	2010-05-27
233133	AH-3 0-1 ³	soil	2010-05-24	00:00	2010-05-27
233134	AH-4 0-1'	soil	2010-05-24	00:00	2010-05-27
233135	AH-4 1-1.5 [*]	soil	2010-05-24	00:00	2010-05-27
233136	AH-4 2-2.5'	soil	2010-05-24	00:00	2010-05-27
233137	AH-4 3-3.5'	soil	2010-05-24	00:00	2010-05-27
233138	AH-4 4-4.5'	soil	2010-05-24	00:00	2010-05-27
233139	AH-4 5-5.5'	soil	2010-05-24	00:00	2010-05-27
233140	AH-4 6-6.5'	soil	2010-05-24	00:00	2010-05-27
233141	AH-4 7-7.5 ³	soil	2010-05-24	00:00	2010-05-27
233142	AH-4 8-8.5°	soil	2010-05-24	00:00	2010-05-27
Trace	Analysis Inc. • 6701	Abordoon Avo Suit	a 9 • Lubbock TX 79	424,1515	704-1206

	June 9, 2010	Work (Drder: 10052814	Pag	ge Number: 2 of (
			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
233143	AH-4 9-9.5'	soil	2010-05-24	00:00	2010-05-23
		Т	PH DRO - NEW		TPH GRO
			DRO		GRO
Sample - Field	l Code		(mg/Kg)		(mg/Kg)
233113 - AH			<50.0		<1.00
233123 - AH	[-2 0-1'		77.3		17.2
233133 - AH			66.0		5.93
233134 - AH	[-4 0-1'		<50.0		<1.00
Sample: 233	113 - AH-1 0-1'				
Param	Flag	R	lesult	Units	RL
Chloride			7520	mg/Kg	4.00
Chloride			2950	mg/Kg	4.00
Sample: 233 Param	115 - AH-1 2-2.5' Flag	R	esult 4830	Units mg/Kg	RL 4.00
Sample: 233 Param Chloride Sample: 233 Param		R		Units	RL 4.00 RL
Sample: 233 Param Chloride Sample: 233 Param Chloride Sample: 233	Flag 116 - AH-1 3-3.5' Flag 117 - AH-1 4-4.5'	R	4830 esult 5670	Units mg/Kg Units mg/Kg	RL 4.00 RL 4.00
ample: 233 Param Phloride ample: 233 Param Phloride ample: 233 aram	Flag 116 - AH-1 3-3.5' Flag	R	4830 esult 5670 esult	Units mg/Kg Units mg/Kg Units	RL 4.00 RL 4.00
Sample: 233 Param Chloride Sample: 233 Param Chloride Sample: 233 Param Chloride	Flag 116 - AH-1 3-3.5' Flag 117 - AH-1 4-4.5' Flag	R	4830 esult 5670	Units mg/Kg Units mg/Kg	RL 4.00 RL 4.00
Sample: 233 Param Chloride Sample: 233 Param Chloride Sample: 233 Param Chloride	Flag 116 - AH-1 3-3.5' Flag 117 - AH-1 4-4.5' Flag 118 - AH-1 5-5.5'	R 	4830 esult 5670 esult 5290	Units mg/Kg Units mg/Kg Units mg/Kg	RL 4.00 RL 4.00 RL 4.00
Sample: 233 Param Chloride Sample: 233 Param Chloride Sample: 233 Param Chloride Chloride	Flag 116 - AH-1 3-3.5' Flag 117 - AH-1 4-4.5' Flag	R R S R	4830 esult 5670 esult	Units mg/Kg Units mg/Kg Units	RL 4.00 RL 4.00

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Report Date: June 9, 2010		Date: June 9, 2010 Work Order: 10052814		Page Number: 3 of	
Sample: 233119	- AH-1 6-6.5'				
Param	Flag	Result	Units	RL	
Chloride		6040	mg/Kg	4.00	
Sample: 233120	- AH-1 7-7.5'				
Param	Flag	Result	Units	RL	
Chloride		6410	mg/Kg	4.00	
Sample: 233121	- AH-1 8-8.5'				
Param	Flag	Result	Units	RL	
Chloride		6000	mg/Kg	4.00	
Sample: 233123 Param	- AH-2 0-1' Flag	Result	Units	RL	
-		Result 11100	Units mg/Kg	RL 4.00	
Param	Flag				
Param Chloride Sample: 233124 Param	Flag	11100 Result	mg/Kg Units	4.00 R.L	
Param Chloride Sample: 233124	Flag - AH-2 1-1.5'	11100	mg/Kg	4.00	
Param Chloride Sample: 233124 Param Chloride	Flag - AH-2 1-1.5' Flag	11100 Result	mg/Kg Units	4.00 R.L	
Param Chloride Sample: 233124 Param	Flag - AH-2 1-1.5' Flag	11100 Result	mg/Kg Units	4.00 R.L	
Param Chloride Sample: 233124 Param Chloride Sample: 233125	Flag - AH-2 1-1.5' Flag - AH-2 2-2.5'	11100 Result 11000	mg/Kg Units mg/Kg	4.00 RL 4.00	
Param Chloride Sample: 233124 Param Chloride Sample: 233125 Param	Flag - AH-2 1-1.5' Flag - AH-2 2-2.5' Flag	11100 Result 11000 Result	mg/Kg Units mg/Kg Units	4.00 RL 4.00 RL	
Param Chloride Sample: 233124 Param Chloride Sample: 233125 Param Chloride	Flag - AH-2 1-1.5' Flag - AH-2 2-2.5' Flag	11100 Result 11000 Result	mg/Kg Units mg/Kg Units	4.00 RL 4.00 RL	

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Report Date: June 9, 2010		Date: June 9, 2010 Work Order: 10052814		Page Number: 4 of (
Sample: 233127	- AH-2 4-4.5'				
Param	Flag	Result	Units	RL	
Chloride		4610	mg/Kg	4.00	
Sample: 233128	- AH-2 5-5.5'				
Param	Flag	Result	Units	RL	
Chloride		4520	mg/Kg	4.00	
Sample: 233129	- AH-2 6-6.5'				
Param	Flag	Result	Units	RL	
Chloride		4310	mg/Kg	4.00	
Sample: 233130	- AH-2 7-7.5'			2	
Param	Flag	Result	Units	RL	
Chloride		2290	mg/Kg	4.00	
Sample: 233131		Result	Units	RL	
Param Chloride	Flag	2570	mg/Kg	4.00	
Sample: 233132 -					
Param	Flag	Result	Units	RL	
Chloride		3150	mg/Kg	4.00	
Sample: 233133 -	- AH-3 0-1'				
Param	Flag	Result	Units	RL	
Chloride		18300	mg/Kg	4.00	
Sample: 233134 -	• AH-4 0-1'				
Param	Flag	Result	Units	RL	
Chloride		15700	mg/Kg	4.00	

Page 93 of 111

Report Date: June 9, 2010		Work Order: 10052814	Pa	ge Number: 5 of 6
Sample: 233135 -	AH-4 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		4250	mg/Kg	4.00
Sample: 233136 -	AH-4 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		5250	mg/Kg	4.00
Sample: 233137 -	AH-4 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		5990	mg/Kg	4.00
Sample: 233138 -	AH-4 4-4.5'			
Param	Flag	Result	Units	RL
Chloride		8990	mg/Kg	4.00
Sample: 233139 -	AH-4 5-5.5'			
Param	Flag	Result	Units	RL
Chloride		8240	mg/Kg	4.00
Sample: 233140 -	AH-4 6-6.5'			
Param	Flag	Result	Units	RL
Chloride		7470	mg/Kg	4.00
Sample: 233141 -	AH-4 7-7.5'			
Param	Flag	Result	Units	RL
Chloride		6750	mg/Kg	4.00
Sample: 233142 -	AH-4 8-8.5'			
Param	Flag	Result	Units	RL
Chloride		5170	mg/Kg	4.00

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Report Date: June	9, 2010	Work Order: 10052814		Page Number: 6 of 6		
Sample: 233143	- AH-4 9-9.5'					
Param	Flag	Result	Units	RL		
Chloride		4850	mg/Kg	4.00		

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Received by OCD: 1/14/2022 10:55:49 AM

Work Order: 10100715

Page Number: 1 of 9

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: October 22, 2010

Work Order: 10100715

Project Location:	Eddy County, NM
Project Name:	COG/GJ West Co-op Inj. Line
Project Number:	114-6400691

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
246918	AH-1 0-1'	soil	2010-10-04	00:00	2010-10-07
246919	AH-1 1-1.5'	soil	2010-10-04	00:00	2010-10-07
246920	AH-1 2-2.5*	soil	2010-10-04	00:00	2010-10-07
246921	AH-1 3-3.5'	soil	2010-10-04	00:00	2010-10-07
246922	AH-2 0-1'	soil	2010-10-04	00:00	2010-10-07
246923	AH-2 1-1.5'	soil	2010-10-04	00:00	2010-10-07
246924	AH-2 2-2.5'	soil	2010-10-04	00:00	2010-10-07
246925	AH-2 3-3.5'	soil	2010-10-04	00:00	2010-10-07
246926	AH-2 4-4.5'	soil	2010-10-04	00:00	2010-10-07
246927	AH-2 5-5.5'	soil	2010-10-04	00:00	2010-10-07
246928	AH-2 6-6.5'	soil	2010-10-04	00:00	2010-10-07
246929	AH-2 7-7.5'	soil	2010-10-04	00:00	2010-10-07
246930	AH-2 8-8.5	soil	2010-10-04	00:00	2010-10-07
246931	AH-2 9-9.5'	soil	2010-10-04	00:00	2010-10-07
246932	AH-3 0-1'	soil	2010-10-04	00:00	2010-10-07
246933	AH-3 1-1.5'	soil	2010-10-04	00:00	2010-10-07
246934	AH-3 2-2.5 ³	soil	2010-10-04	00:00	2010-10-07
246935	AH-3 3-3.5'	soil	2010-10-04	00:00	2010-10-07
246936	AH-3 4-4.5'	soil	2010-10-04	00:00	2010-10-07
246937	AH-3 5-5.5'	soil	2010-10-04	00:00	2010-10-07
246938	AH-3 6-6.51	soil	2010-10-04	00:00	2010-10-07
246939	AH-3 7-7.5	soil	2010-10-04	00:00	2010-10-07
246940	AH-3 8-8.5'	soil	2010-10-04	00:00	2010-10-07
246941	AH-3 9-9.5'	soil	2010-10-04	00:00	2010-10-07
246942	AH-4 0-1'	soil	2010-10-04	00:00	2010-10-07
246943	AH-4 1-1.5	soil	2010-10-04	00:00	2010-10-07
246944	AH-4 2-2.5'	soil	2010-10-04	00:00	2010-10-07
246945	AH-4 3-3.5'	soil	2010-10-04	00:00	2010-10-07
246946	AH-4 4-4.5 ²	soil	2010-10-04	00:00	2010-10-07
246947	AH-4 5-5.5'	soil	2010-10-04	00:00	2010-10-07
The	Analysis Inc. a 6701	bandoon Aug Suit	a 0 a Lubboah TV 70	M94 1515 · (806)	704 1206

Report Date: October 22, 2010

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Work Order: 10100715

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Sample	Description	Matrix	Date Taken	Time Taken	Date Received
246948	AH-4 6-6.5'	soil	2010-10-04	00:00	2010-10-07
246949	AH-4 7-7.5'	soil	2010-10-04	00:00	2010-10-07
246950	AH-4 8-8.5'	soil	2010-10-04	00:00	2010-10-07
246951	AH-4 9-9.5 ⁷	soil	2010-10-04	00:00	2010-10-07
246952	AH-5 0-11	soil	2010-10-04	00:00	2010-10-07
246953	AH=5 1-1.5'	soil	2010-10-04	00:00	2010-10-07
246954	AH-5 2-2.5'	soil	2010-10-04	00:00	2010-10-07
246955	AH-5 3-3.5 ¹	soil	2010-10-04	00:00	2010-10-07
246956	AH-5 4-4.5'	soil	2010-10-04	00:00	2010-10-07
246957	AH=5 5-5.5 ³	soil	2010-10-04	00:00	2010-10-07
246958	AH-5 6-6.5'	soil	2010-10-04	00:00	2010-10-07
246959	AH-5 7-7.5'	soil	2010-10-04	00:00	2010-10-07
246960	AH-5 8-8.5'	soil	2010-10-04	00:00	2010-10-07
246961	AH-5 9-9.5'	soil	2010-10-04	00:00	2010-10-07
246962	AH-6 0-1'	soil	2010-10-04	00:00	2010-10-07
246963	AH-6 1-1.5'	soil	2010-10-04	00:00	2010-10-07
246964	AH-6 2-2.5'	soil	2010-10-04	00:00	2010-10-07
246965	AH-6 3-3.5 ¹	soil	2010-10-04	00:00	2010-10-07
246966	AH-6 4-4.5 ³	soil	2010-10-04	00:00	2010-10-07
246967	AH-6 5-5.5'	soil	2010-10-04	00:00	2010-10-07
246968	AH-6 6-6.5'	soil	2010-10-04	00:00	2010-10-07
246969	AH-6 7-7.5'	soil	2010-10-04	00:00	2010-10-07
246970	AH-6 8-8.5'	soil	2010-10-04	00:00	2010-10-07
246971	AH-6 9-9.5'	soil	2010-10-04	00:00	2010-10-07

		I	BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
246918 - AH-1 0-1'					<50.0	<1.00
246922 - AH-2 0-1'	< 0.200	0.293	< 0.200	0.612	6410	104
246923 - AH-2 1-1.5'					<50.0	<1.00
246924 - AH-2 2-2.5'					96.0	<1.00
246932 - AH-3 0-1'					88.1	<1.00
246942 - AH-4 0-1'	<0.200	1.78	4.87	12.7	8060	1430
246943 - AH-4 1-1.5'					<250	590
246944 - AH-4 2-2.5'					151	<1.00
246952 - AH-5 0-1'	< 0.0500	< 0.0500	0.304	0.358	71.1	91.3
246962 - AH-6 0-1'	< 0.500	0.701	14.4	13.9	4400	1320
246963 - AH-6 1-1.5'					1830	5820
246964 - AH-6 2-2.5'					2150	11100
246965 - AH-6 3-3.5'					2160	1560
246966 - AH-6 4-4.5'					2380	3260
246967 - AH-6 5-5.5'					2320	2050
246968 - AH-6 6-6.5'					929	1500
246969 - AH-6 7-7.5'					1950	926
246970 - AH-6 8-8.5'					2080	1040
246971 - AH-6 9-9.5'					3690	917

Sample: 246918 - AH-1 0-1'

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Param	Flag	Result	Units	RL
Chloride		5280	mg/Kg	4.00
Sample: 246919	- AH-1 1-1.5'			
Param	Flag	Result	Units	RL
Chloride	2 5 4 1 m m 10	3820	mg/Kg	4.00
Sample: 246920	- AH-1 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		3940	mg/Kg	4.00
Sample: 246921	- AH-1 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		4860	mg/Kg	4.00
Sample: 246922 Param Chloride	- AH-2 0-1' Flag	Result 4040	Units mg/Kg	RL 4.00
Sample: 246923	- AH-2 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		2580	mg/Kg	4.00
Sample: 246924	- AH-2 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		1160	mg/Kg	4.00
Sample: 246925	- AH-2 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		1370	mg/Kg	4.00

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Report Date: October 22, 2010		Work Order: 10100715	Page	Page Number: 4 of 9	
Sample: 246926	- AH-2 4-4.5'				
Param	Flag	Result	Units	RL	
Chloride		1000	mg/Kg	4.00	
Sample: 246927	- AH-2 5-5.5'				
Param	Flag	Result	Units	RL	
Chloride		913	mg/Kg	4.00	
Sample: 246928	- AH-2 6-6.5'				
Param	Flag	Result	Units	RL	
Chloride		977	mg/Kg	4.00	
Sample: 246929	- AH-2 7-7.5'				
Param	Flag	Result	Units	RL	
Chloride		1120	mg/Kg	4.00	
Sample: 246930	- AH-2 8-8.5'				
Param	Flag	Result	Units	RL	
Chloride		2100	mg/Kg	4.00	
Sample: 246931	- AH-2 9-9.5'				
Param	Flag	Result	Units	RL	
Chloride		3810	mg/Kg	4.00	
Sample: 246932	- AH-3 0-1'				
Param	Flag	Result	Units	RL	
Chloride		279	mg/Kg	4.00	
Sample: 246933 ·	- AH-3 1-1.5'				
Param	Flag	Result	Units	RL	
Chloride		<200	mg/Kg	4.00	

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Report Date: October 22, 2010		Work Order: 10100715		Page Number: 5 of 9		
Sample: 246934 - AH-3 2-2.5'						
Param	Flag	Result	Units	RL		
Chloride	Ģ	694	mg/Kg	4.00		
Sample: 246935 - AH-3	3-3.5'					
Param	Flag	Result	Units	RL		
Chloride		1260	mg/Kg	4.00		
Sample: 246936 - AH-3	4-4.5'					
Param	Flag	Result	Units	RL		
Chloride		3240	mg/Kg	4.00		
Chloride Sample: 246938 - AH-3 Param	6-6.5' Flag	8300 Result	mg/Kg Units	4.00 RL		
		8830		4.00		
Chloride		6000	mg/Kg	4.00		
Chloride Sample: 246939 - AH-3 Param Chloride	7-7.5' Flag	Result 10900	Units mg/Kg	RL 4.00		
Sample: 246939 - AH-3 Param	Flag	Result	Units	RL		
Sample: 246939 - AH-3 Param Chloride	Flag	Result 10900 Result	Units	RL 4.00 RL		
Sample: 246939 - AH-3 Param Chloride Sample: 246940 - AH-3 Param	Flag 8-8.5'	Result 10900	Units mg/Kg	RL 4.00 RL		
Sample: 246939 - AH-3 Param Chloride Sample: 246940 - AH-3	Flag 8-8.5' Flag	Result 10900 Result	Units mg/Kg Units	RL 4.00		
Sample: 246939 - AH-3 Param Chloride Sample: 246940 - AH-3 Param Chloride	Flag 8-8.5' Flag	Result 10900 Result	Units mg/Kg Units	RL 4.00 RL		

Received by OCD: 1/14/2022 10:55:49 AM

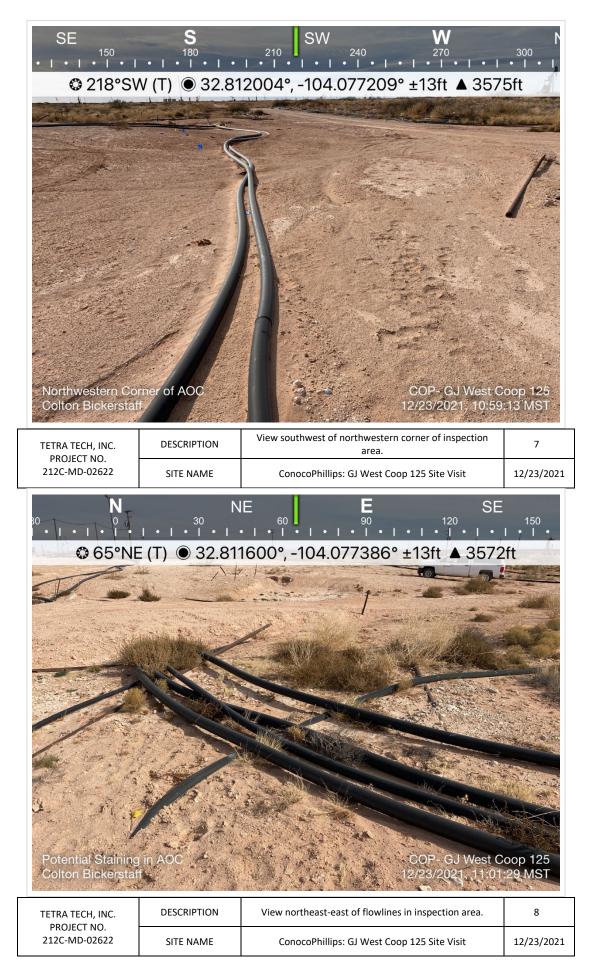
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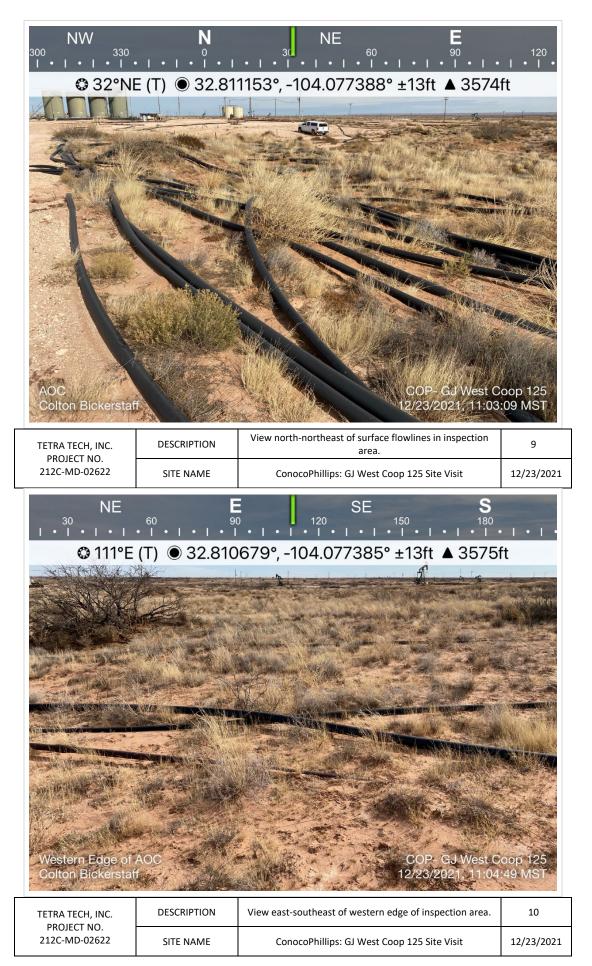
APPENDIX D Photographic Documentation

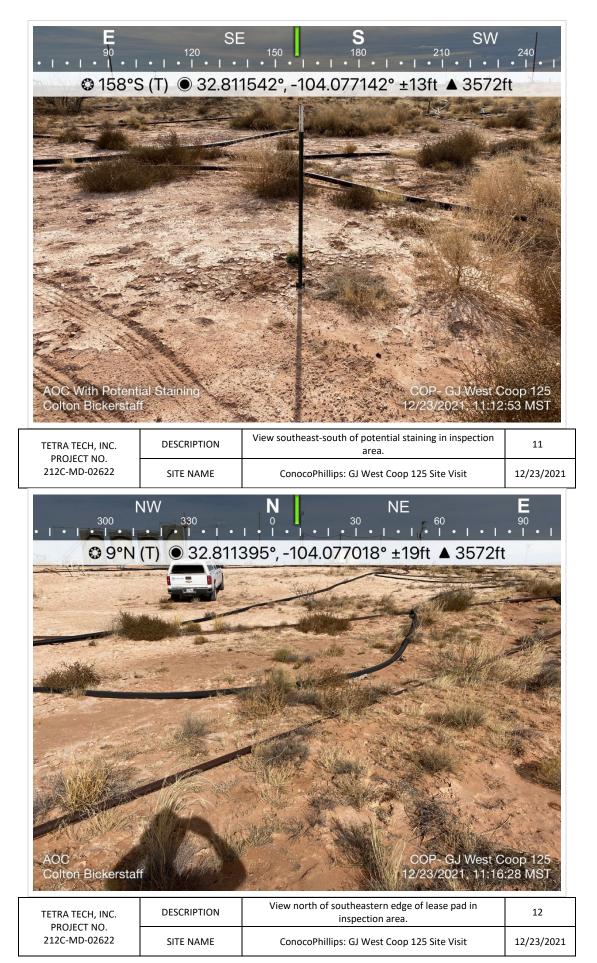


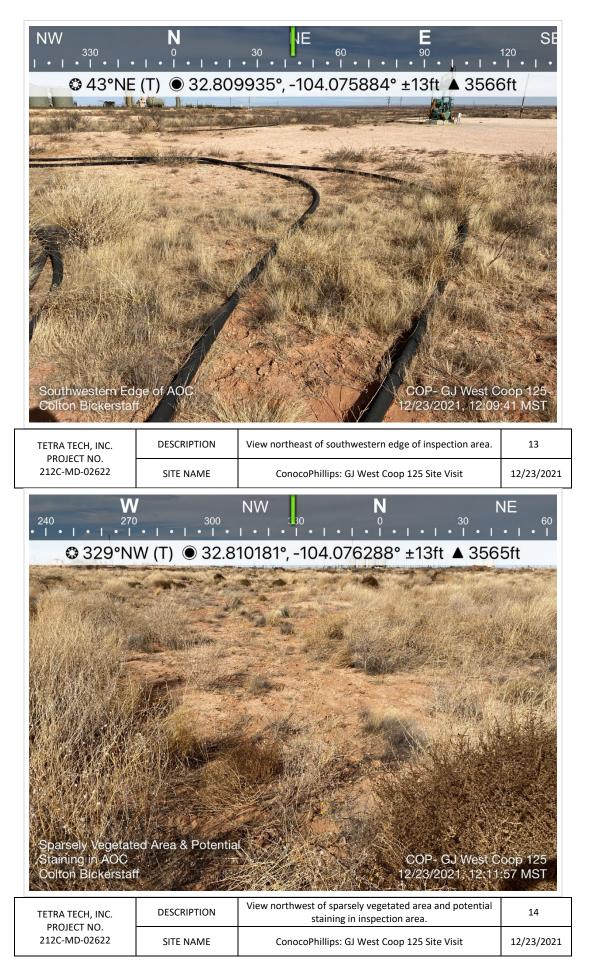


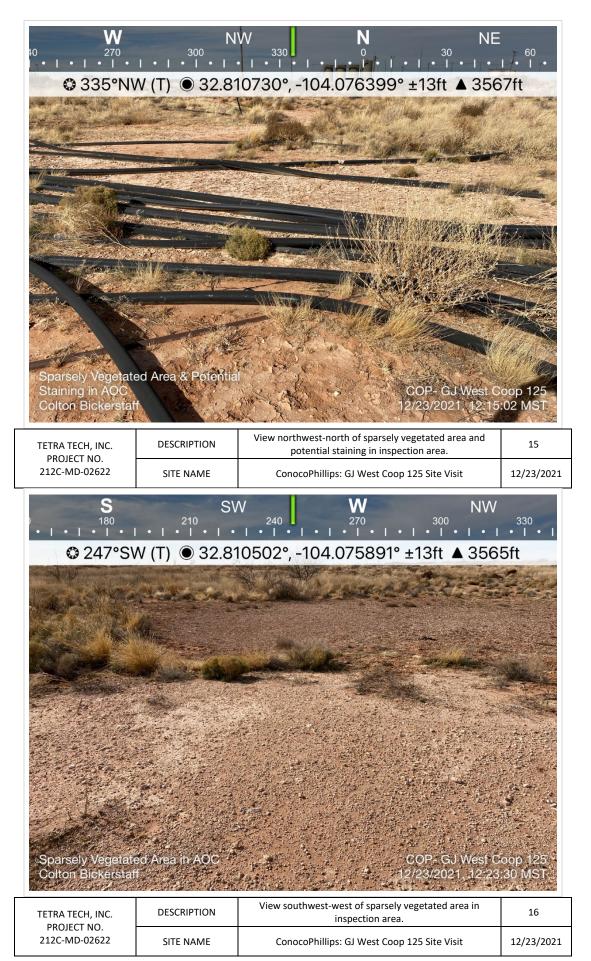


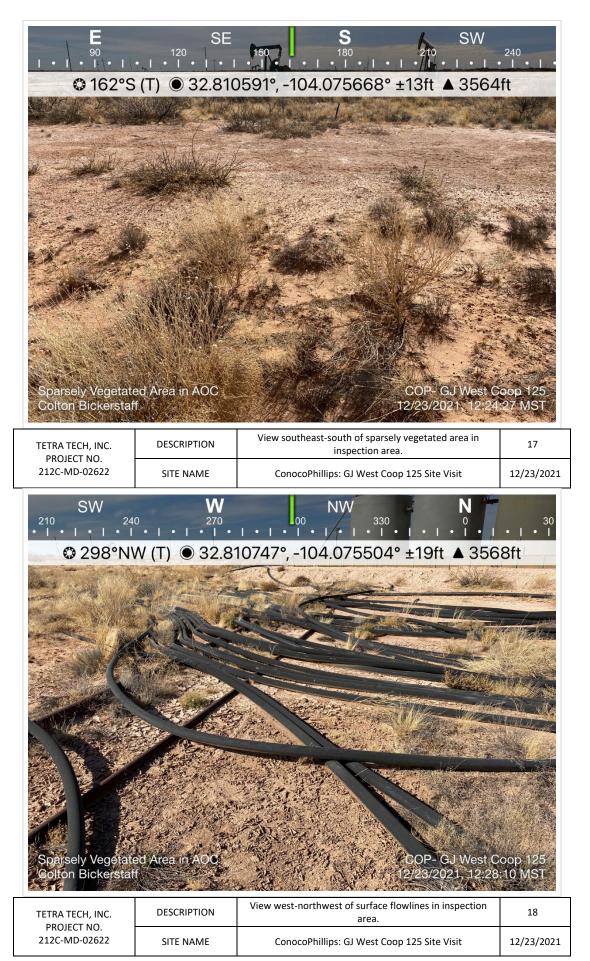












District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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District IV

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State of New Mexico Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	72515
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS Created By Condition Condition Date bbillings 3/4/2022 This particular incident is closed, Deferrals for other releases on location remain in effect. For ultimate closure when site is decommissioned, a more accurate depth to GW will need to be determined and Section13 of Rule 29 will need to be addressed.

Action 72515