

Oil Conservation Division District 2 – Artesia 811 S. First St. Artesia, NM 88210

Re: SL Deep Federal #3 30-025-39441 Sec. 30, T19S-R32E Lea County, NM September 22, 2015

**RECEIVED** By Jamie at 10:16 am, Sep 23, 2015

**APPROVED** By Jamie at 10:16 am, Sep 23, 2015

Stipulation: 1. Confirmation sample at SP1 @ 5 ft to confirm that contaminated material has been removed.

Ms. Kellie Jones,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated July 14, 2015.

## Background

The release was caused by a corroded steel flow line within the bermed area of the separation equipment. The release resulted in 1 barrel of oil and 35 barrels of produced water of which 30 barrels of produced water were recovered. The initial clean up consisted of an excavation of approximately 6" which was hauled to an NMOCD approved disposal facility.

## Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of **Zero** with depth of groundwater at >500'.

## Soil Assessment and Analytical Results

Samples were taken in two areas within the bermed facility and approximate locations are depicted on the attached Site Diagram. S1 was the major pooling area of the release resulting in elevated chloride levels to a depth of 4' with BTEX and TPH resulting as non-detect at a depth of 1'. S2 results indicate chloride levels to be low with BTEX and TPH resulting as non-detect at a depth of 1'. Attached for your consideration is a site diagram, sample summary table, and analytical results.

## Work Plan

COG Operating LLC proposes that the area labeled as S1 will be excavated to a depth of approximately 5'. No further excavation will be done within the area labeled as S2. Excavation within the impacted area will be handled with respect to the safety and stability of the existing infrastructure and personnel involved during excavation. The area in question is small and excavation poses a potential risk for the long term stability of the towering equipment.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,

Lupe Carrasco Environmental Coordinator

Enclosed: Site Diagram and Summary Table Laboratory Analysis C-141 Initial (copy)

## June 30, 20

## SL Deep Federal #3

e Area	Cl- 8240 7060 6800 6800 6800 1112 736 80 80	
Legend Release Area	HdT HdT	
	DX0 DX0 DX0 DX0 DX0 DX0 DX0 DX0 DX0 DX0	
	BIEX ND ND ND	
ないの	M V H X 0 4 M V H X	
32.6360207103.8087845 Beleased: 1.8/0-35.8/2007	Recovered 0 B/O 30 B/P/V	



July 22, 2015

LUPE CARRASCO

COG Operating, LLC

500 W. ILLINOIS

Midland, TX 79701

RE: SL DEEP #3

Enclosed are the results of analyses for samples received by the laboratory on 07/15/15 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



		COG Opera LUPE CARF 500 W. ILL Midland TX Fax To:	ASCO INOIS		
Received:	07/15/2015			Sampling Date:	07/09/2015
Reported:	07/22/2015			Sampling Type:	Soil
Project Name:	SL DEEP #3			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN			· · ·	·

## Sample ID: S1-1 (H501811-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/20/2015	ND	1.95	97.6	2.00	1.98	
Toluene*	<0.050	0.050	07/20/2015	ND	1.97	98.6	2.00	2.26	
Ethylbenzene*	<0.050	0.050	07/20/2015	ND	2.08	104	2.00	2.40	
Total Xylenes*	<0.150	0.150	07/20/2015	ND	5.43	90.5	6.00	2.86	
Total BTEX	<0.300	0.300	07/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1149	85.6-13	7						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	07/21/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/17/2015	ND	182	90.8	200	2.44	
DRO >C10-C28	<10.0	10.0	07/17/2015	ND	190	94.8	200	2.41	
Surrogate: 1-Chlorooctane	85.3 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.2 9	52.1-17							

## Sample ID: S1-2 (H501811-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	07/21/2015	ND	416	104	400	0.00	

## Cardinal Laboratories

\*=Accredited Analyte

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Celeg Litherno -

Celey D. Keene, Lab Director/Quality Manager



		COG Opera LUPE CARF 500 W. ILL Midland TX	RASCO		
		Fax To:	None		
Received:	07/15/2015			Sampling Date:	07/09/2015
Reported:	07/22/2015			Sampling Type:	Soil
Project Name:	SL DEEP #3			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN				

## Sample ID: S1-3 (H501811-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	07/22/2015	ND	416	104	400	0.00	

## Sample ID: S2-1 (H501811-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2015	ND	1.95	97.6	2.00	1.98	
Toluene*	<0.050	0.050	07/20/2015	ND	1.97	98.6	2.00	2.26	
Ethylbenzene*	<0.050	0.050	07/20/2015	ND	2.08	104	2.00	2.40	
Total Xylenes*	<0.150	0.150	07/20/2015	ND	5.43	90.5	6.00	2.86	
Total BTEX	<0.300	0.300	07/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL 117 % 85.6-137

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/21/2015	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/17/2015	ND	182	90.8	200	2.44	
DRO >C10-C28	<10.0	10.0	07/17/2015	ND	190	94.8	200	2.41	
Surrogate: 1-Chlorooctane	78.9	% 47.2-15	7						-
Surrogate: 1-Chlorooctadecane	87.3	% 52.1-17	6						

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## \*=Accredited Analyte

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Celleg & Kerro -



		COG Operatin LUPE CARRAS 500 W. ILLING Midland TX, 7 Fax To: N	SCO DIS		
Received: Reported: Project Name: Project Number: Project Location:	07/15/2015 07/22/2015 SL DEEP #3 NONE GIVEN NOT GIVEN			Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	07/09/2015 Soil Cool & Intact Judy Garcia

## Sample ID: S2-2 (H501811-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	07/21/2015	ND	416	104	400	0.00	

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Celley Litherno -



## **Notes and Definitions**

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 \*\*
 Samples not received at proper temperature of 6°C or below.

 \*\*\*
 Insufficient time to reach temperature.

 Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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No. of Concession, Name of	326 FAX (5	fland, Hobb:
the second secon	(575) 393-2326 FAX (575) 393-2476	101 East Marland, Hobbs, NM 88240
	<b>~</b> /	-

Company Name: COG Operating LLC	0147		
Project Manager: Lupe Carrasco		P.O. #	ANALYSIS REQUEST
Address: 2208 West Main		Company: COG Operating 110	
City: Artesia State: NM	Zip 88210		
Phone #: (575) 748-6940 Fax #:		ess:	
Project #: Project Owner:			
Project Name: SL Deep #3		e TX Zin	/2
Project Location:			77.
Sampler Name: Lupe Carrasco		Phone #: (432) 221-0388	
1		Fax #:	Pec
	R	PRESERV. SAMPLING	dd
Lab I.D. Sample I.D.	(G)RAB OR (C)C # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME BTEX	TPH Chloride
		7/9/15	-
2-2		7/9/15	
¥ 01-0		7/9/15	Ŧ
S-02-1		7/9/15	
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PLEASE NOTE: Lubbity and Damages. Cantinal's liability and client's exclusive remedy for any claim analy whether based in contract or fort, shall be tended to the amount paid by the client for the	ny clearn annung whether based in contrad or to	rf, shall be tartied to the amount paid by the client for the	
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aune	Received By: Received By	Harring Phone Result: Fax Result: REMARKS: <u>gc</u> atrujillo@conch	t: □ Yes □ No Add'! Phone #: □ Yes □ No Add'! Fax #: <u>gcarrasco@concno.com</u> ncho.com Run chlorides until samples fall below 1000ppm
Delivered By: (Circle One)		CHECKED BY:	
Sampler - UPS - Bus - Other:	2.4 C Coot Intact Dres Dres Vies	0	

5

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



August 24, 2015

LUPE CARRASCO

COG Operating, LLC

500 W. ILLINOIS

Midland, TX 79701

RE: SL DEEP #3

Enclosed are the results of analyses for samples received by the laboratory on 08/19/15 14:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="http://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine



		COG Opera LUPE CARF 500 W. ILL Midland TX Fax To:	RASCO		
Received: Reported: Project Name: Project Number: Project Location:	08/19/2015 08/24/2015 SL DEEP #3 NONE GIVEN NOT GIVEN	i.		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/18/2015 Soil Cool & Intact Judy Garcia

## Sample ID: S1-4' (H502162-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP	1				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	08/20/2015	ND	432	108	400	7.69	

## Sample ID: S1-6' (H502162-02)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/20/2015	ND	432	108	400	7.69	

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Calley D. Keine -



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg Di Keins -

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

; E							
		77/8	7 70			ANALYSIS REQUEST	
Project Manager: Lupe Carrasco		P.O. #:					
Address: 2208 West Main		Company: 0	COG Operating LLC				
City: Artesia State: NM Zip	88210		Robert McNeill				
Phone #: (575) 748-6940 Fax #:		Address:	600 W Illinois				
Project #: Project Owner:		City:	Midland				
Project Name: SL Deep #3		State: TX 2	Zip: 79701				
Project Location:		Phone #: (432) 221-0388	221-0388				
Sampler Name: Lupe Carrasco		Fax #:		_			
FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING	T			
Lab I.D. Sample I.D. # COUTRINERS	ROUNDWATER RATEWATER SOIL OIL SUDGE	отнея : Acid/Base: ICE / Cool Отнея : Отнея :	DATE	XƏTB	TPH Chloride		
A S1-4'					×		
Z S1-6'					×		Second and second and second
3. S1-8'					< ×		
L S1-10'					: ×		
122	) whether desoid at contract of t d unless made in writing and rec ion, business interruptions, loss	ort, shall be timbed to the seved by Cardinal within 3 of use, or loss of bruths in	ir passed at contract of toot, shall be strated to the amount paid by the client for the marked in written and recenced by Caratina within 30 days after competition of the a mess thiermuthdens, lease of use, or lease of tracks incurrent by client is entimetation.	he applicable			
affitution of successors animg out of or related to the performance of services hereunder by Cardinal, ingardisens of wheel [Relification of successors animg out of or related to the performance of services hereunder by Cardinal, Ingardisens of wheel Ruv-		whether such claim is besed upon any of the above	ve stated reasons or otherwise.	- eles			
Time:			Fax Result: REMARKS:			gcarrasco(@concho.com gcarrasco(@concho.com	
Relinquished By: Received By:	red By:		EALL BE	RO	om 0 PPM	PLEASE RUN CHLORIDES UNTIL THEY	THEY
Tinger ! 19	12	vice					
Sampler - UPS - Other:	Sample Condition Cool Intact LUYes LUYes	n CHECKED BY: (Initials)	8 Y:				
† Cardinal car	+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 $\pm 10^{-2}$ C	al changes. P	lease fax written	changes t	0 575-393-;	2476	



August 24, 2015

LUPE CARRASCO

COG Operating, LLC

500 W. ILLINOIS

Midland, TX 79701

RE: SL DEEP #3

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Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



(	COG Operati	ng, LLC	
	LUPE CARRA	SCO	
ļ	500 W. ILLIN	IOIS	
I	Midland TX, 3	79701	
I	Fax To:	None	

Received:	08/19/2015	Sampling Date:	08/14/2015
Reported:	08/24/2015	Sampling Type:	Soil
Project Name:	SL DEEP #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		·

## Sample ID: S2-3' (H502163-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/20/2015	ND	432	108	400	7.69	

## **Cardinal Laboratories**

## \*=Accredited Analyte

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Celeg Di Keine -



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- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celleg D. Keine -

t Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	Circle One)			Consequent	- Cerdinal's Libbility and clerift's e	2. C2 41		Lab I.D. Sample I.D.		FOR LAB USE ONLY	2	Project Name: SL Deep #3		Phone #: (575) 748-6940 Fax #:	Antesia	Address: 2208 West Main	Project Manager: Lupe Carrasco		2 2	CARDINA			
	H. H. LI Yes	Received By:		Includerty websuk firmtabon, business interruptions, loss of use, or forr by Cardinal, impartiess of webber such claim is besed upon Ref. Sproof Rv-	any claim arrang whether based in contract or					# ( GI W/ SC OI	G)RAB OR (C)C CONTAINERS ROUNDWATE (ASTEWATER OIL IL LUDGE			generative descent descent and the second		her:		Zip 88210				88240 -2476	T
	CHECKED BY: Domitials)	FALL BELOW 10	Fax Result: C REMARKS: QCA	Latensis within 30 days after completion of the appli- less of profils incurred by client, its subsidiaries, any of the above stated reasons or otherwise.	or tort, shall be lemited to the amount pad by the client for the		8/14/15	8/14/15	8/14/15		THER : CID/BASE: E / COOL THER :	PRESERV. SAMPLING	1	Phone #: (432) 221-0388	State: TX Zip: 79701	City: Midland	Address: 600 W Illinois		Company: COG Operating LLC	P.O. #:	BILL TO	K	CHAIN-OF
	PM	10:00M PLEASE RUN CHLORIDES UNTIL THEY	U Yes D No Add'I Phone #: Carrasco(@concho.com gCarrasco(@concho.com					)k		Sh1	'H loride										ANALYSIS REOLIEST	Separate Ceport	F-CUSTODY AND ANALYSIS REQUEST

Form C-141 Revised August 8, 2011

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

API No. 30-025-39441

## **Release Notification and Corrective Action**

	OPERATOR	Initial Report	Final Report
Name of Company: COG Operating LLC	Contact: Robert McNeill		
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077		
Facility Name: SL Deep Federal #3	Facility Type: Battery		

Surface Owner: Federal

## LOCATION OF RELEASE

Mineral Owner:

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	30	19S	32E	990	North	1650	West	Lea

Latitude 32.6360207 Longitude -103.8087845

## NATURE OF RELEASE

Type of Release: Oil and Water	Volume of Release:		lecovered:						
Source of Release:	1 bbl Oil ; 35 bbl PW		; 30 bbl PW						
Flowline	Date and Hour of Occurrence:	Hour of Discovery:							
Was Immediate Notice Given?	6/30/2015 8:30 am 6/30/2015 8:30 am								
Yes No Not Required	If YES, To Whom? d Kellie Jones – NMOCD / Jim Amos – BLM								
By Whom? Amanda Trujillo	Date and Hour: Wed 7/1/2015 5:29 PM								
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.								
🗌 Yes 🛛 No									
If a Watercourse was Impacted, Describe Fully.*									
Describe Cause of Problem and Remedial Action Taken.*									
This release was caused by the corrosion of a steel flowline within the battery area. Vacuum trucks were dispatched to recover all standing fluid.									
	there are a second there are a span		er an standing fluid.						
Describe Area Affected and Cleanup Action Taken.*									
·									
This release occurred within the bermed area among the separation equip	ment. Concho will have the spill site s	sampled to de	lineate any possible						
contamination from the release and we will present a remediation work p	lan to the NMOCD for approval prior	to any signifi	icant remediation work.						
r r r r r r r r r r r r r r r r r r r									
I hereby certify that the information given above is true and complete to t	he best of my knowledge and understa	and that pursu	ant to NMOCD rules and						
regulations all operators are required to report and/or file certain release r	otifications and perform corrective ac	tions for rele	ases which may endanger						
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relie	eve the operator of liability						
should their operations have failed to adequately investigate and remediat	te contamination that pose a threat to g	ground water,	surface water, human health						
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respon	sibility for co	mpliance with any other						
federal, state, or local laws and/or regulations.									
	OIL CONSERY	VATION	DIVISION						
Anigille									
Signature:									
	Approved by Environmental Specialist:								
Printed Name: Amanda Trujillo	······································								
Title: Senior Environmental Coordinator	Approval Date:	Expiration D	on Date:						
E-mail Address: atrujillo@concho.com	Conditions of Approval:	Attached							
Deter July 14 2015 DI 575 540 (040									
Date: July 14, 2015 Phone: 575-748-6940									

\* Attach Additional Sheets If Necessary