

December 10, 2018

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

Ryan Mann New Mexico State Land Office 1001 S. Atkinson Roswell, NM 88230

Re: Work Plan

SRO State Com 5H (9/20/18)

API #: 30-015-37425 RP#: 2RP-4982

GPS: 32.05143 -104.11671

Unit Letter M, Section 8, Township 26 South, Range 28 East

Eddy County, New Mexico

Mr. Bratcher and Mr. Mann,

COG Operating, LLC (COG) is pleased to submit the following work plan in response to a release that occurred at the SRO State Com 5H located in Unit Letter M, Section 8 Township 26 South and Range 28 East in Eddy County, New Mexico.

BACKGROUND

The release was discovered on September 20, 2018 and a C-141 initial report was submitted and approved by the New Mexico Oil Conservation Division (NMOCD). The initial C-141 is shown in Appendix A. The release was caused by a block ram failure. Approximately 0.25 barrels of crude oil and fourteen (14) barrels of produced water were released and recovered twelve (12) of produced water. All of the fluids remained on the pad.

GROUNDWATER AND REGULATORY FRAMEWORK

According to the New Mexico Office of the State Engineer (NMOSE), a water well was reported in Section 22 with a depth of 120 feet below surface. In addition, the USGS showed a depth to water <50 feet below surface. In addition, the Chevron Trend Map show depth to groundwater in the area <50 feet below surface for the area. The water well information is shown in Appendix B.

A risk based evaluation and site determinations were performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). According to the site characterization evaluation, the area is in a medium karst and no other receptors (water wells, playas, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site. The groundwater data and the site characterization evaluation data is summarized in Appendix B. The delineation and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)		
Medium Karst Area	<50 feet		

Delineation and Closure Criteria:

Remedial Action Levels (RALs)				
Chlorides	600 mg/kg			
TPH (GRO and DRO and MRO)	100 mg/kg			
TPH (GRO and DRO)	NA			
Benzene	10 mg/kg			
Total BTEX	50 mg/kg			

PROPOSED WORK PLAN

- The areas of S-1 and S-2 will be excavated to a depth of 1.0' and 3.0' below surface, respectively. The proposed remediation will remove all of the chloride impacted soil above the RAL.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with clean backfilled material.

SAMPLING PLAN

Once the excavation is complete, soil confirmation samples will be collected from the excavated areas for the constituents of concern. To collect representative samples, composite samples (5-point composite) will be collected every 200 square feet for the final confirmation sampling for the constituents of concern. Discrete soil samples will be collected from the excavation if any "hot spots" are encountered during the excavation.

REMEDIATION TIMEFRAME AND ESTIMATED VOLUME

The remediation will be performed 90 days after the work plan has been approved. Approximately 230 cubic yards of soil will be excavated and hauled offsite for proper disposal.

SITE RECLAMATION AND RESTORATION

All of the soil remained on the pad and no reclamation activities will be required at the site.

Once the proposed remediation is performed. COG will prepare a closure report. Should you have any questions or concerns on the proposed remediation activities, please do not hesitate to contact me.

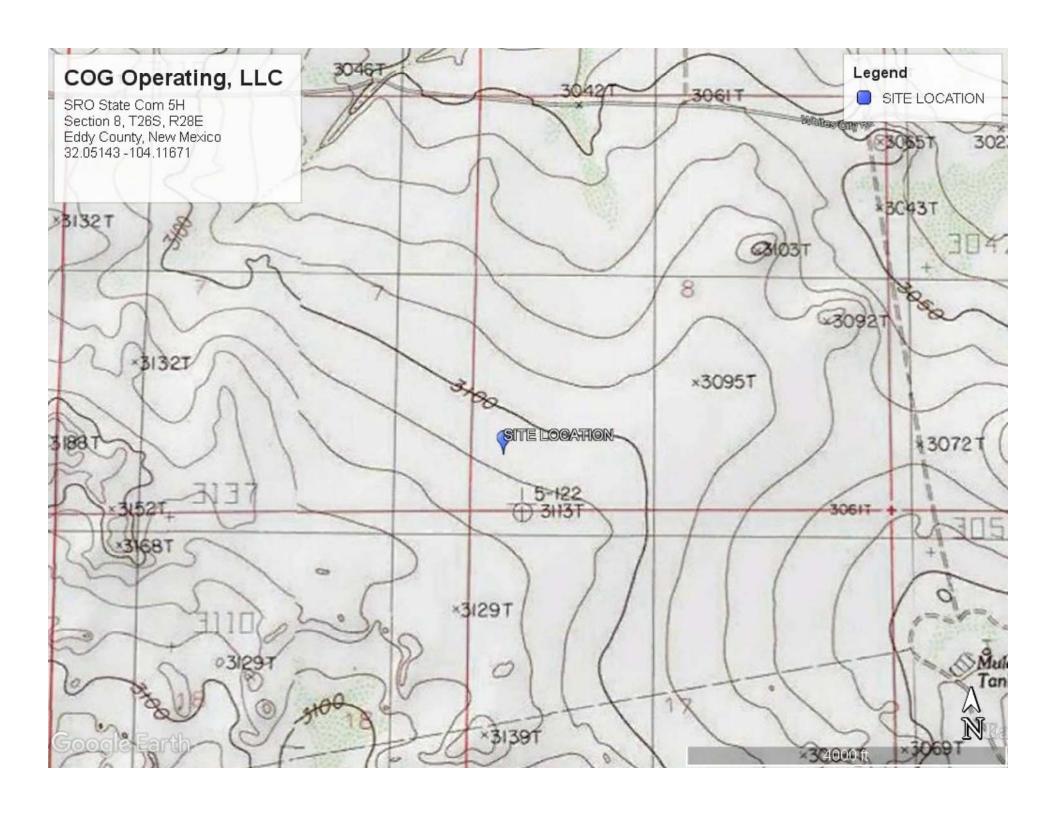
Sincerely, Concho Operating, LLC

Ike Tavarez, P. G. Senior HSE Supervisor

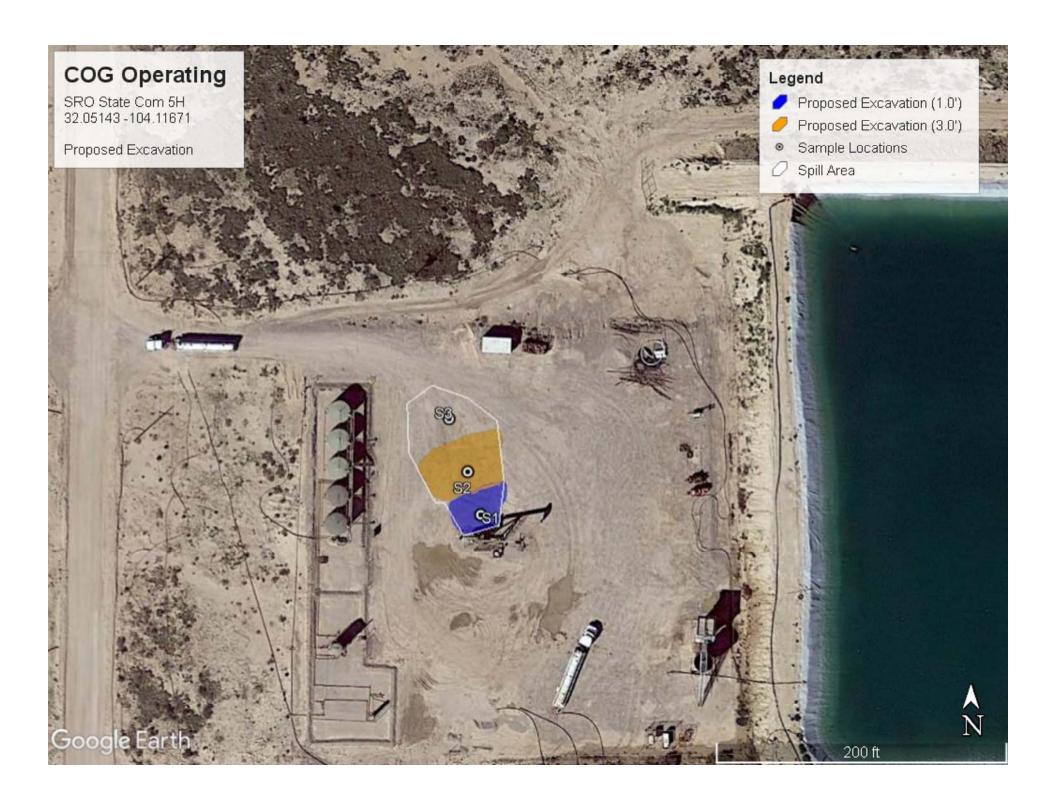
itavarez@concho.com

cc: file

Figures







Tables

Table 1
COG Operating LLC.
SRO State Unit COM 5H
Eddy County, New Mexico

Sample ID Sample CDS Sample Date Sample		Soil Status		TPH (mg/kg)			Benzene	Total BTEX	Chloride			
Sample ID	Sample GPS	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total		(mg/kg)	
Average Depth	to Groundwater (ft)											
NMOCD RAL L	imits (mg/kg)					-	-	-	100	10	50	600
S-1	32.051651° -104.117056°	11/19/2018	Surface	X		<10.0	84.1	25.1	109.2	< 0.025	< 0.15	6,240
		11/19/2018	1	X		<10.0	<10.0	<10.0	<10.0	< 0.025	< 0.15	80
S-2	32.051734° -104.117110°	11/19/2018	Surface	X		<10.0	<10.0	<10.0	<10.0	< 0.025	< 0.15	2,080
		11/19/2018	1	X		<10.0	<10.0	<10.0	<10.0	< 0.025	< 0.15	2,560
		11/19/2018	2			<10.0	<10.0	<10.0	<10.0	< 0.025	< 0.15	816
		11/19/2018	3									208
S-3	32.051651° -104.117056°	11/19/2018	Surface	X		<10.0	<10.0	<10.0	<10.0	< 0.025	< 0.15	80
							_					
							_					

Proposed Excavation Depth

(-) Not Analyzed

Appendix A

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

Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Name					Contact Telephone		
Contact email					Incident # (assigned by OCD)		
Contact mail	Contact mailing address						
			Location	ı of R	elease So	ource	
T. die 1			Locuion	. 01 11			
Latitude			(NAD 83 in de	lecimal de	Longitude _ grees to 5 decin	nal places)	
Site Name					Site Type		
Date Release	Discovered				API# (if app	olicable)	
Unit Letter	Section	Township	Range		Coun	nty	_
Surface Owner	:: State	☐ Federal ☐ Tr	ibal 🔲 Private ((Name:)
			Nature an	d Vol	umo of I	Dalansa	
Crude Oil	Material	(s) Released (Select all Volume Released		ch calculat	ions or specific	Volume Reco	e volumes provided below) overed (bbls)
Produced	Water	Volume Release	d (bbls)			Volume Reco	overed (bbls)
		Is the concentrate		chloride	in the	Yes N	No
Condensa	te	produced water > Volume Release				Volume Reco	overed (bbls)
Natural G		Volume Release				Volume Reco	
	Other (describe) Volume/Weight Released (provide units)			<u> </u>		ght Recovered (provide units)	
_ `							
Cause of Rele	ease						

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area has	s been secured to protect human health and	he environment.
Released materials ha	we been contained via the use of berms or di	kes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	rhy:
Per 10 15 29 8 B (4) NM	AC the responsible party may commence re	mediation immediately after discovery of a release. If remediation
has begun, please attach a	a narrative of actions to date. If remedial e	fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environn failed to adequately investigated to adequate the control of the c	required to report and/or file certain release notified nent. The acceptance of a C-141 report by the Oate and remediate contamination that pose a threat	est of my knowledge and understand that pursuant to OCD rules and cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have t to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature:	n Opeant	Date:
email:		Telephone:
OCD Only		
Received by:		Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP 4982
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?						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?						
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?						
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?						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil					
Characterization Report Checklist: Each of the following items must be included in the report.						
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring 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 Lebertory data including chain of gustedy. 						
☐ 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.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP 4982
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: <u>Ike Tavarez</u>	Title: <u>Senior HSE Supervisor</u>
Signature:	
email: <u>itavarez@concho.com</u>	Telephone: <u>432-683-7443</u>
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	
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Application ID	

Remediation Plan

 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Ike Tavarez</u> Title: <u>Senior HSE Supervisor</u>
Signature: Date: Date:
email: itavarez@concho.com Telephone: 432-683-7443
OCD Only
Received by: Victoria Venegas Date: Date:
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:02/15/2019

Appendix B



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

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

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

(In feet)

		POD Sub-		0	Q	Λ							•	¥7.0.4.0
POD Number	Code		County				Sec	Tws	Rng	X	Y	DepthWellDepthV		Water olumn
<u>C 01668</u>		CUB	ED		3	3	12	26S	28E	589957	3546554*	250	100	150
<u>C 02160</u>		CUB	ED	4	1	2	14	26S	28E	589243	3546044*	300	120	180
<u>C 02160 S</u>		CUB	ED	1	1	2	14	26S	28E	589043	3546244*	300	120	180
<u>C 02160 S2</u>		CUB	ED	1	1	2	14	26S	28E	589043	3546244*	300	120	180
<u>C 02160 S3</u>		CUB	ED	2	2	1	14	26S	28E	588834	3546241*	300	120	180
<u>C 02160 S4</u>		CUB	ED	2	2	1	14	26S	28E	588834	3546241*	300	120	180
C 02160 S5		CUB	ED	1	1	1	14	26S	28E	588225	3546237*	300	120	180
C 02160 S6		CUB	ED	3	3	1	14	26S	28E	588232	3545635*	300	120	180
C 02160 S7		CUB	ED	3	3	1	22	26S	28E	586638	3543998*	300	120	180
<u>C 02160 S8</u>		CUB	ED	2	3	3	12	26S	28E	590056	3546653*	200	120	80
<u>C 02160 S9</u>		CUB	ED	3	3	2	02	26S	28E	589020	3548868*	300	120	180
<u>C_02477</u>		CUB	ED		1	1	03	26S	28E	586687	3549347*	150		
<u>C 02478</u>		CUB	ED		2	1	05	26S	28E	583848	3549325*	100		
<u>C 02479</u>		CUB	ED		4	4	10	26S	28E	587909	3546534*	200		
<u>C 02480</u>		CUB	ED		4	4	10	26S	28E	587909	3546534*	150		
<u>C 02481</u>		CUB	ED		1	1	14	26S	28E	588326	3546138*	200		
<u>C 02894</u>		C	ED	2	2	3	12	26S	28E	590458	3547061*	240		
<u>C 02924</u>		C	ED	1	3	2	11	26S	28E	589032	3547451*			
C 04022 POD1		CUB	ED	4	4	2	15	26S	28E	588082	3545647	220	175	45
C 04022 POD2		CUB	ED	2	2	2	27	26S	28E	588106	3543082	250	145	105
											Average Depth	to Water:	124 fe	et
											Minim	um Depth:	100 fe	et

Maximum Depth:

175 feet

Record Count: 20

PLSS Search:

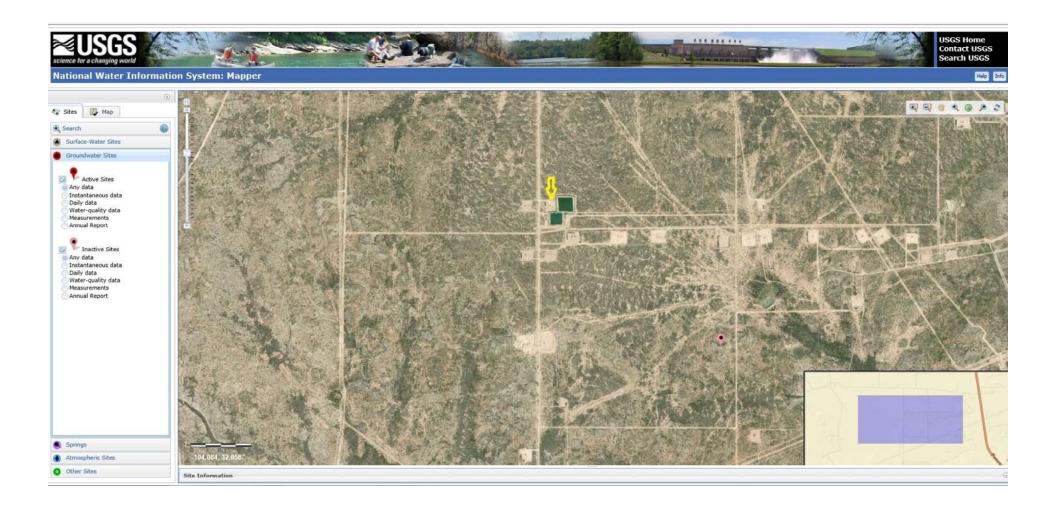
Township: 26S Range: 28E

*UTM location was derived from PLSS - see Help

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

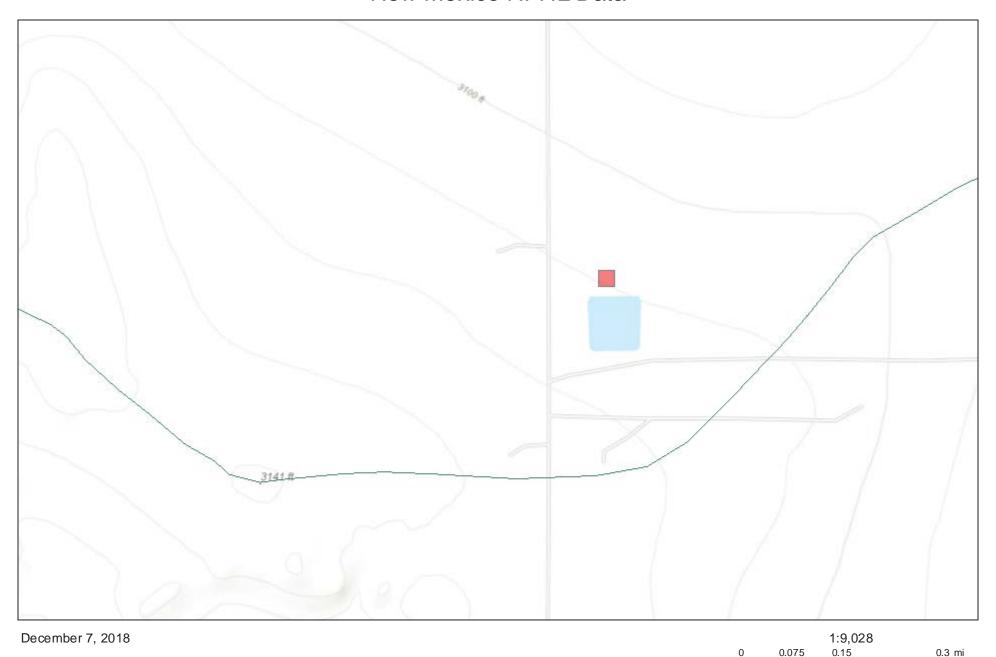
> WATER COLUMN/ AVERAGE DEPTH TO WATER

12/7/18 12:45 PM



COG Operating, LLC Legend High SRO State Com 5H Section 8, T26S, R28E Whites Low Eddy County, New Mexico 32.05143 -104.11671 Medium SITE LOCATION SITE LOCATION Google Earth 4000 ft

New Mexico NFHL Data



0 0.1 0.2 0.4 km

FEMA Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Groundwater ✓ United States ✓ GO

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- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 320230104060601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320230104060601 26S.28E.18.33111

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico

Hydrologic Unit Code --

Latitude 32°02'30", Longitude 104°06'06" NAD27

Land-surface elevation 3,070 feet above NAVD88

This well is completed in the Castile Gypsum (312CSTL) local aquifer.

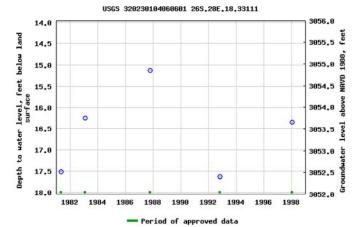
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals

Help

Data Tips

Explanation of terms

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Accessibility Plug-Ins FOIA Privacy Policies and Notices

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

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

USA.gov

Appendix C



November 29, 2018

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SRO STATE UNIT COM #5H

Enclosed are the results of analyses for samples received by the laboratory on 11/20/18 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 www.tceq.texas.gov/field/ga/lab 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: SRO STATE UNIT COM #5H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: NOT GIVEN

mg/kg

Sample ID: S1 - SURFACE (H803395-01)

BTEX 8260B

BIEX 8200B	mg	кg	Anaiyze	a by: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/26/2018	ND	2.20	110	2.00	5.84	
Toluene*	0.028	0.025	11/26/2018	ND	2.26	113	2.00	2.70	
Ethylbenzene*	<0.025	0.025	11/26/2018	ND	2.18	109	2.00	0.118	
Total Xylenes*	<0.075	0.075	11/26/2018	ND	7.28	121	6.00	4.01	
Total BTEX	<0.150	0.150	11/26/2018	ND					
Surrogate: Dibromofluoromethane	100	% 90.4-11	1						
Surrogate: Toluene-d8	101	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	94.5	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	11/28/2018	ND	432	108	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	11/26/2018	ND	208	104	200	0.163	
DRO >C10-C28*	84.1	10.0	11/26/2018	ND	234	117	200	0.618	
EXT DRO >C28-C36	25.1	10.0	11/26/2018	ND					
Surrogate: 1-Chlorooctane	72.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: SRO STATE UNIT COM #5H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NOT GIVEN

ma/ka

Sample ID: S1 - 1' (H803395-02)

RTFY 8260R

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/26/2018	ND	2.20	110	2.00	5.84	
Toluene*	<0.025	0.025	11/26/2018	ND	2.26	113	2.00	2.70	
Ethylbenzene*	<0.025	0.025	11/26/2018	ND	2.18	109	2.00	0.118	
Total Xylenes*	<0.075	0.075	11/26/2018	ND	7.28	121	6.00	4.01	
Total BTEX	<0.150	0.150	11/26/2018	ND					
Surrogate: Dibromofluoromethane	99.8	% 90.4-11	1						
Surrogate: Toluene-d8	104	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	86.0	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/28/2018	ND	432	108	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	11/26/2018	ND	208	104	200	0.163	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	234	117	200	0.618	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					
Surrogate: 1-Chlorooctane	79.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.8	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: SRO STATE UNIT COM #5H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: NOT GIVEN

Sample ID: S2 - SURFACE (H803395-08)

BTEX 8260B

DILX 0200D	ilig/	r kg	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/26/2018	ND	2.20	110	2.00	5.84	
Toluene*	<0.025	0.025	11/26/2018	ND	2.26	113	2.00	2.70	
Ethylbenzene*	<0.025	0.025	11/26/2018	ND	2.18	109	2.00	0.118	
Total Xylenes*	<0.075	0.075	11/26/2018	ND	7.28	121	6.00	4.01	
Total BTEX	<0.150	0.150	11/26/2018	ND					
Surrogate: Dibromofluoromethane	100	% 90.4-11	1						
Surrogate: Toluene-d8	104	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	86.6	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	11/28/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2018	ND	208	104	200	0.163	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	234	117	200	0.618	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					
Surrogate: 1-Chlorooctane	85.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.5	% 37.6-14	7						

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COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: SRO STATE UNIT COM #5H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NOT GIVEN

ma/ka

Sample ID: S2 - 1' (H803395-09)

RTFY 8260R

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/26/2018	ND	2.20	110	2.00	5.84	
Toluene*	<0.025	0.025	11/26/2018	ND	2.26	113	2.00	2.70	
Ethylbenzene*	<0.025	0.025	11/26/2018	ND	2.18	109	2.00	0.118	
Total Xylenes*	<0.075	0.075	11/26/2018	ND	7.28	121	6.00	4.01	
Total BTEX	<0.150	0.150	11/26/2018	ND					
Surrogate: Dibromofluoromethane	106	% 90.4-11	1						
Surrogate: Toluene-d8	104	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	84.8	% 80.1-12	21						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	11/28/2018	ND	432	108	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	11/26/2018	ND	208	104	200	0.163	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	234	117	200	0.618	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					
Surrogate: 1-Chlorooctane	78.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.1	% 37.6-14	!7						

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: SRO STATE UNIT COM #5H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NOT GIVEN

ma/ka

Sample ID: S2 - 2' (H803395-10)

RTFY 8260R

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/26/2018	ND	2.20	110	2.00	5.84	
Toluene*	<0.025	0.025	11/26/2018	ND	2.26	113	2.00	2.70	
Ethylbenzene*	<0.025	0.025	11/26/2018	ND	2.18	109	2.00	0.118	
Total Xylenes*	<0.075	0.075	11/26/2018	ND	7.28	121	6.00	4.01	
Total BTEX	<0.150	0.150	11/26/2018	ND					
Surrogate: Dibromofluoromethane	101	% 90.4-11	1						
Surrogate: Toluene-d8	102	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	85.2	% 80.1-12	21						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	11/28/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2018	ND	208	104	200	0.163	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	234	117	200	0.618	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					
Surrogate: 1-Chlorooctane	83.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-14	!7						

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: SRO STATE UNIT COM #5H Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: S2 - 3' (H803395-11)

BTEX 8260B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/26/2018	ND	2.20	110	2.00	5.84	
Toluene*	<0.025	0.025	11/26/2018	ND	2.26	113	2.00	2.70	
Ethylbenzene*	<0.025	0.025	11/26/2018	ND	2.18	109	2.00	0.118	
Total Xylenes*	<0.075	0.075	11/26/2018	ND	7.28	121	6.00	4.01	
Total BTEX	<0.150	0.150	11/26/2018	ND					
Surrogate: Dibromofluoromethane	103 9	% 90.4-11	1						
Surrogate: Toluene-d8	102	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	86.8	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/28/2018	ND	432	108	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	11/26/2018	ND	208	104	200	0.163	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	234	117	200	0.618	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					
Surrogate: 1-Chlorooctane	82.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.5	% 37.6-14	7						

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Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: SRO STATE UNIT COM #5H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: NOT GIVEN

mg/kg

Sample ID: S3 - SURFACE (H803395-14)

BTEX 8260B

DILX 0200D	ilig/	r kg	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/26/2018	ND	2.20	110	2.00	5.84	
Toluene*	<0.025	0.025	11/26/2018	ND	2.26	113	2.00	2.70	
Ethylbenzene*	<0.025	0.025	11/26/2018	ND	2.18	109	2.00	0.118	
Total Xylenes*	<0.075	0.075	11/26/2018	ND	7.28	121	6.00	4.01	
Total BTEX	<0.150	0.150	11/26/2018	ND					
Surrogate: Dibromofluoromethane	102	% 90.4-11	1						
Surrogate: Toluene-d8	104	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	86.6	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2018	ND	208	104	200	0.163	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	234	117	200	0.618	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					
Surrogate: 1-Chlorooctane	80.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.2	% 37.6-14	7						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

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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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1005

Company Name:	٥, ٩			
	000		BILL 70	ANALYSIS REQUEST
Project Manager:	37:		P.O. #:	
Address:			Company: COC	
City:	State:	Zip:	1	
Phone #:	Fax #:		Address:	
Project #:	Project Owner		City:	
Project Name:	SRO State Unit Com	#34	State: Zin:	
Project Location:			*	
Sampler Name:			THORIE #:	
oampier Name:	Cupy Carresed	<u></u>	Fax #:	
FOR LAB USE ONLY		MATRIX	PRESERV, SAMPLING	
		RS ER		
Lab I.D.	Sample I.D.	······································	ASE: DOL	Py
56550RH		# CON GROU	ACID/E	
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PLEASE NOTE: Liability and	Damages. Cardinal's liability and client's exclusive remodu for a			
analyses. All claims including service. In no event shall Car	analyses. All dalms including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cagdinal he lights for inclination or consequently described by Cardinal within 30 days after completion of the applicable	ny claim ansing whether based in contract or to leemed waived unless made in writing and rece	rt, shall be limited to the amount paid be eived by Cardinal within 30 days after or	y the client for the policable
affiliates or successors arising Relinguished Ry	affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Rejinquished Rv:	without limitation, business interruptions, toss or ardinal, regardless of whether such claim is bas	of use, or loss of profits incurred by clier sed upon any of the above stated reason	nt. Its subsidiaries.
<u>.</u>	11 holl 8	11 holl & Received by:	1///	Phone Result: ☐ Yes ☐ No Add'I Phone #: Fax Result: ☐ Yes ☐ No Add'I Fay #:
			١	

Sample Condition
Cool Intact
Pes Pes
No No

4

CHECKED BY: (Initials)

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Time:
// ¿Dan (Lung)
Received By

Phone Result: 1 Yes 1 No Add'l Phone #:

Fax Result: 1 Yes 1 No Add'l Fax #:

REMARKS:

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lape more inclasmail. com

Time:



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company rante.		20 (A)		A CONTRACTOR OF THE CONTRACTOR		
Project Manager:			P.O. #:	The control of the co	ANALYSIS REC	REQUEST
Address:		6	Company: / / / /			
City:	State:	Zip: A	144			
Phone #:	Fax #:		Address:			
Project #:	Project Owner:	C	City:			
Project Name:	NO State Unit Com	#54	State: Zip:			
Project Location:	,	י	#			
Sampler Name:	Lupe Carrasco	TI	Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING			
		RS TER R		St.		
Lab I.D.	Sample I.D.	G)RAB OR (C CONTAINER GROUNDWA' VASTEWATE GOIL DIL SLUDGE DTHER:	CID/BASE: CE / COOL THER :	BTO TPH Ch/b		
Z Z	2-501600					
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12 50	7-41			z Z Ø		
12/2	-6')	۶,		
			£1K//u.			
LEASE NOTE: Liability and Dama nalyses. All claims including those	PLEASE NOTE: Liability and Damages. Cardinal's fiability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in within and received by Cardinal within 20 and the client for the	aim arising whether based in contract or tor	t, shall be limited to the amount paid by	y the client for the		
service. In no event shall Cardinal baffillates or successors arising out of Relinguished Ry:	Service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by citient, is subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinguished Rv.	out limitation, business interruptions, loss of the second sections and the second sec	f use, or loss of profits incurred by clien ed upon any of the above stated reasor	Impletion of the applicable at, its subsidiaries, as or otherwise,		
	Date: 11/20/1 & R	Received By:	D D	ılt: U Yes U	No Add'l Phone #:	
Relinquished By:		Received Ry.	Malakua	reg	NO Add'I Fax #:	
	Time:					
Delivered By: (Circle One)	cle One)	Sample Condition	오			
Sampler - UPS - Bu	Bus - Other: 410 #	Cool Intact	_			····
+ Cardinal annual	annant washal ab	NO L NO				

Pardinal assess tasks tarkal abandas. Blass for written abandas to IETE) 202 2226

Page 11 of 12



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	3			And the second of the second o		
Project Manager:	ON C		P.O #:	And the second of the second o	ANALYSIS REQUEST	
Address:			nanv.			
City:	State:	Zip:	Attn: / Kal			
Phone #:	Fax #:		Address:			
Project #:	Project Owner:	vner:	City:			
Project Name:	Sko State Unit	Com #SH	-			
Project Location		1	Dhopp #:			
Sampler Name:	Lyon Courasco		Fax #:	^		
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	1	5	
		RS TER R		[E		
Lab I.D.	Sample I.D.	G)RAB OR (G CONTAINEI GROUNDWA' VASTEWATE GOIL DIL	OTHER: CID/BASE: CE / COOL THER:	B) TH, Chlor	Chlor	·
v E	53 - Sintice	# V	A	3		
55	ノン・・・			X		
7	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			XXX		
<u>2</u>	53-4'			_		
	53-6		Statistics .	X X X		
EASE NOTE: Liability and D lyses, All claims including th rice. In no event shall Cardin	PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinat within 30 days after completion of the applicable service. In no event shall Cardinat be liable for incidental or consequences included the contraction of the applicable.	for any claim arising whether based in contract of the contrac	or tort, shall be limited to the amount paid received by Cardinal within 30 days after or	by the client for the completion of the applicable		
Relinquished By:	Relinquished By: Date: / Received By:	by Cardinal, regardless of whether such claim is	based upon any of the above stated reasons or otherwise.			
	Time: 1/20/18	Received By:	llabye	ılt: □ Yes □	No Add'l Phone #:	
duction by.	Time:	Received By:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other	•					
		4.1c #97 Tres Fres	7			

Cardinal annuat accept workel abandor. Blanca for written abandor to IETE(202 222E

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