

July 7, 2020

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

Work Plan

Vasquez #001 RP#: 2RP-5702 Incident#: NRM1932257155 DOR: October 9, 2019 GPS: 32.2315331 -104.0559235 Unit Letter J, Section 11, Township 24 South, Range 28 East Eddy County, New Mexico

To Whom It May Concern,

COG Operating, LLC (COG) is pleased to submit the following work plan in response to a release that occurred at the Vasquez #001 tank battery. The release is located in Unit Letter J, Section 11, Township 24 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.2315331 North and -104.0559235 West.

BACKGROUND

The release was discovered on October 9, 2019. A C-141 initial report was submitted to the New Mexico Oil Conservation Division (NMOCD). The initial C-141 is presented in Appendix A. Due to internal corrosion of a tank, a release of approximately forty-two (42) barrels (bbls) of produced water occurred inside of the unlined containment. Fluid leached through the earthen berm and impacted the well pad east of the containment.

On May 15, 2020, a geo-probe was utilized to vertically delineate the impacted area and collect background samples from the surrounding area.

GROUNDWATER AND REGULATORY FRAMEWORK

According to the United States Geological Survey (USGS) the nearest water well (321343104025801) is located approximately 0.4 miles southeast of the release site and indicates that groundwater in the project vicinity is approximately thirty-six (36) feet below ground surface (BGS). 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, no other receptors (water wells, playas, karst, 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.)
None Located	36 Feet

Delineation and Closure Criteria:

Recommended Remedial Action Levels (RRALs)		
Chlorides	600 mg/kg	
TPH (GRO and DRO and MRO)	100 mg/kg	
TPH (GRO and DRO)	N/A	
Benzene	10 mg/kg	
Total BTEX	50 mg/kg	

PROPOSED WORK PLAN

- The impacted area in the vicinity of sample location SB-1 will be excavated to a depth of three (3) feet BGS.
- Due to the production equipment the impacted area inside of the berms of the tank battery will be deferred until abandonment of the facility.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with clean "like" material and contoured to match the surrounding terrain.

SAMPLING PLAN

Once the excavation is complete, confirmation soil samples will be collected from the excavated areas. To collect representative samples, composite samples (5-point composite) will be collected every 200 square feet from the bottom and sidewalls of the excavated area. The soil samples will be laboratory analyzed 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 forty-seven (47) cubic yards of soil will be excavated and hauled offsite for proper disposal.

SITE RECLAMATION AND RESTORATION

All of the fluid remained on the well pad. No reclamation activities will be required at this site.

Should you have any questions or concerns on the proposed remediation activities, please do not hesitate to contact me.

Sincerely,

Sincerely,

Sheldon Jutan

Sheldon L. Hitchcock HSE Coordinator slhitchcock@concho.com

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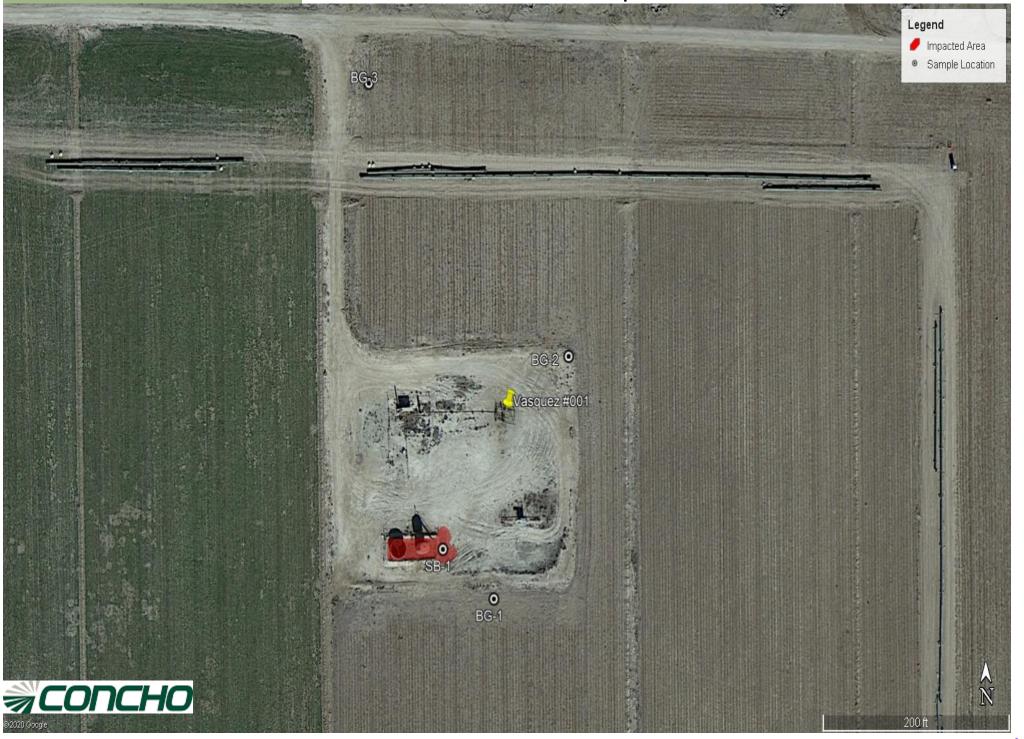
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FIGURES



October 5, 2019

Vasquez #001





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TABLES

Table 1 COG Operating LLC. Vasquez #001 Eddy County, New Mexico

Sample			Soil	Status TPH (mg/kg)					Benzene Total BTEX	Chloride				
Sample ID	Depth (ft)	Sample Date	In-Situ	Removed	GRO	DRO	MRO	Total	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD RRAL Lim	its (mg/kg)				-	-	-	2,500	-	-	1,000	10	50	20,000
SB-1	0-1	5/15/2020	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	4,800
SB-1	2	5/15/2020	Х		#	#	#	#	#	#	#	#	#	1,070
SB-1	3	5/15/2020	Х		#	#	#	#	#	#	#	#	#	368
BG-1	0-1	5/15/2020	Х		#	#	#	#	#	#	#	#	#	80
BG-1	2	5/15/2020	Х		#	#	#	#	#	#	#	#	#	80
BG-1	3	5/15/2020	Х		#	#	#	#	#	#	#	#	#	96
BG-1	4	5/15/2020	Х		#	#	#	#	#	#	#	#	#	112
BG-1	5	5/15/2020	Х		#	#	#	#	#	#	#	#	#	272
BG-1	6	5/15/2020	Х		#	#	#	#	#	#	#	#	#	96
BG-1 R	7	5/15/2020	Х		#	#	#	#	#	#	#	#	#	80
BG-2	0-1	5/15/2020	Х		#	#	#	#	#	#	#	#	#	112
BG-2	2	5/15/2020	Х		#	#	#	#	#	#	#	#	#	128
BG-2	3	5/15/2020	Х		#	#	#	#	#	#	#	#	#	128
BG-2	4	5/15/2020	Х		#	#	#	#	#	#	#	#	#	112
BG-2	5	5/15/2020	Х		#	#	#	#	#	#	#	#	#	144
BG-2	6	5/15/2020	Х		#	#	#	#	#	#	#	#	#	144
BG-2	7	5/15/2020	Х		#	#	#	#	#	#	#	#	#	144
BG-2	8	5/15/2020	Х		#	#	#	#	#	#	#	#	#	64
BG-2	9	5/15/2020	Х		#	#	#	#	#	#	#	#	#	288
BG-2	10	5/15/2020	Х		#	#	#	#	#	#	#	#	#	96
BG-2 R	11	5/15/2020	Х		#	#	#	#	#	#	#	#	#	144
BG-3	0-1	5/15/2020	Х		#	#	#	#	#	#	#	#	#	96
BG-3	2	5/15/2020	Х		#	#	#	#	#	#	#	#	#	112
BG-3	3	5/15/2020	Х		#	#	#	#	#	#	#	#	#	96
BG-3	4	5/15/2020	Х		#	#	#	#	#	#	#	#	#	144
BG-3	5	5/15/2020	Х		#	#	#	#	#	#	#	#	#	160
BG-3 R	6	5/15/2020	Х		#	#	#	#	#	#	#	#	#	96
Avg BG Chloride	126.01													

Proposed Excavation Depth

(#) Not Analyzed

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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

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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

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Longitude

	(NAD 83 in decimal degrees to 5 decimal places)
Sita Nama	Site Type

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible 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 whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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:	Title:
Signature: Sheldon guitan	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 7/7/2020 12:52:45 PM Form C-141 State of New Mexico

Oil Conservation Division

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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.

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Received by OCD: 7/7/20	20 12:52:45 PM State of New Mexico			Page 13 of 44
			Incident ID	
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators ar public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations.	ormation given above is true and complete to the e required to report and/or file certain release no ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a thu of a C-141 report does not relieve the operator o	tifications and perform cc OCD does not relieve the reat to groundwater, surfa f responsibility for compl 	prrective actions for rele e operator of liability sh- ice water, human health liance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
Signature:	Hulom	Date:		
email:		Telephone:		
OCD Only Received by:		Date:		

Received by OCD: 7/7/2020 12:52:45 PM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must b	e included in the 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 con	nfirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.				
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of				
Printed Name:					
Signature: Sheldon Aiton email:	Date:				
email:	Telephone:				
OCD Only					
	Dete				
Received by:					
Approved Approved with Attached Conditions of Approval Denied Deferral Approved					
Signature: Justunes	Date: 09/10/2020				

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

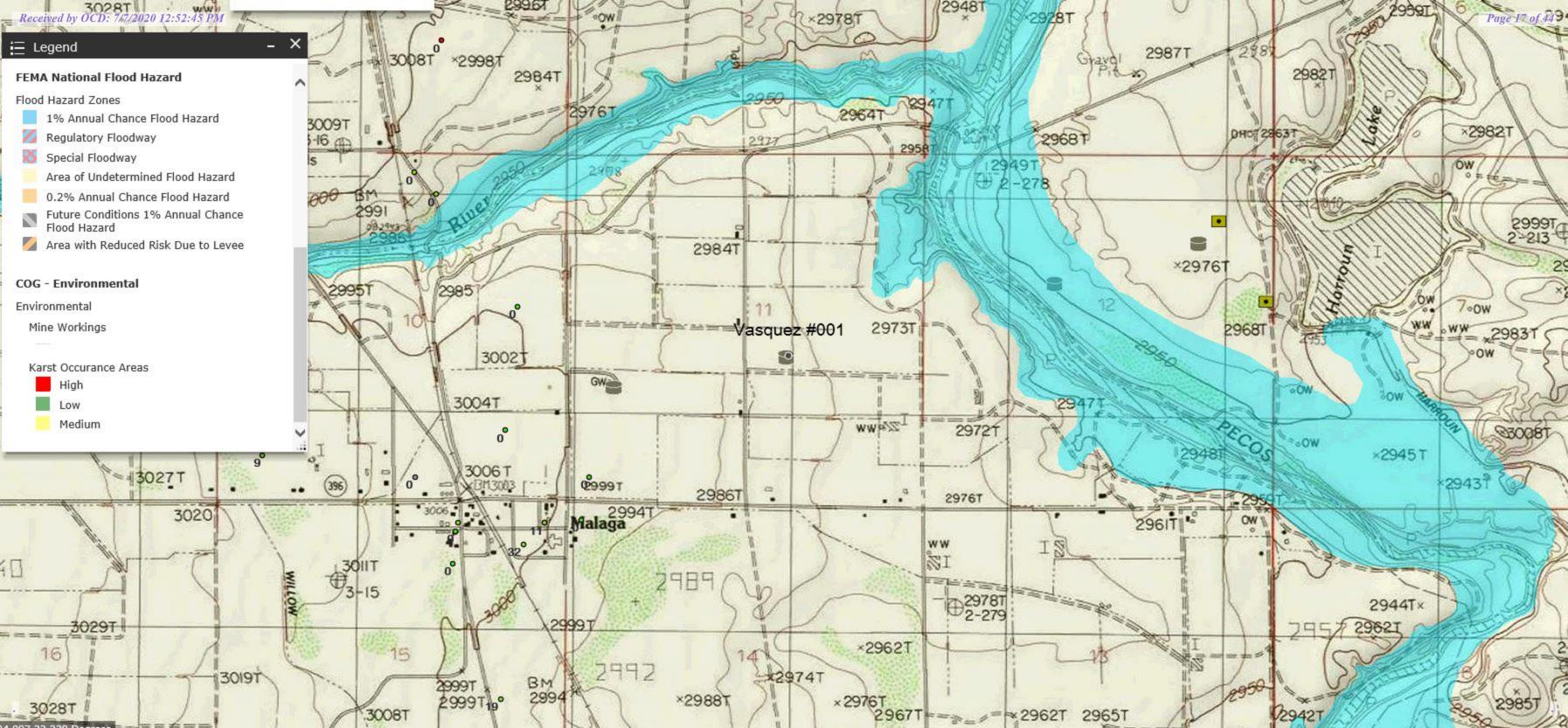
<u>Closure Report Attachment Checklist</u> : Each of the following i	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of 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 certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren 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 C Printed Name:	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in
email:	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:	Date:
Printed Name:	Title:

Page 6

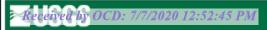
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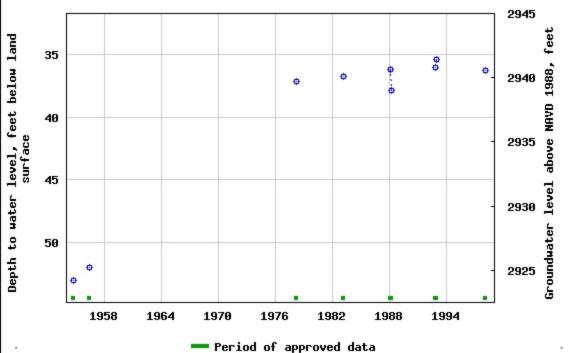
APPENDIX B







USGS 321343104025801 24S.28E.11.44211



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May 21, 2020

DAVID ADKINS TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VASQUEZ #001

Enclosed are the results of analyses for samples received by the laboratory on 05/20/20 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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)

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

Celey D. Keene Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/20/2020	Sampling Date:	05/15/2020
Reported:	05/21/2020	Sampling Type:	Soil
Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO		

Sample ID: SB - 1 0-1' (H001382-01)

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	05/20/2020	ND	1.92	95.8	2.00	6.49	
Toluene*	<0.050	0.050	05/20/2020	ND	1.96	97.8	2.00	6.73	
Ethylbenzene*	<0.050	0.050	05/20/2020	ND	2.01	101	2.00	6.95	
Total Xylenes*	<0.150	0.150	05/20/2020	ND	5.87	97.8	6.00	7.05	
Total BTEX	<0.300	0.300	05/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	05/21/2020	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	05/20/2020	ND	190	95.0	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/20/2020	ND	186	93.1	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/20/2020	ND					
Surrogate: 1-Chlorooctane	85.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.8	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 whatscever 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 whother is subsidiaries, affiliates or successor 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO		

Sample ID: SB - 1 2' (H001382-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	05/21/2020	ND	432	108	400	0.00	

Sample ID: SB - 1 3' (H001382-03)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/21/2020	ND	432	108	400	0.00	

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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.
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

Cardinal Laboratories

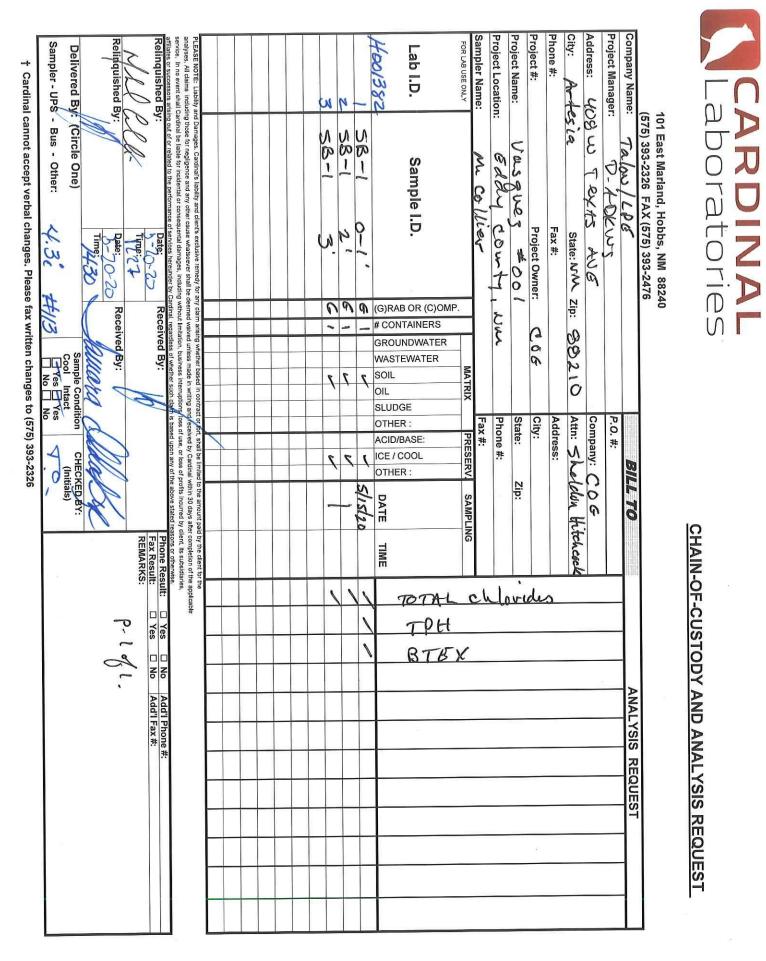
*=Accredited Analyte

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Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 7/7/2020 12:52:45 PM



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May 21, 2020

DAVID ADKINS TALON LPE

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ARTESIA, NM 88210

RE: VASQUEZ #001

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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

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Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - SHELDON H.		

Sample ID: BG - 1 0-1' (H001380-01)

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	05/21/2020	ND	432	108	400	0.00	

Sample ID: BG - 1 2' (H001380-02)

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	05/21/2020	ND	432	108	400	0.00	

Sample ID: BG - 1 3' (H001380-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/21/2020	ND	432	108	400	0.00	

Sample ID: BG - 1 4' (H001380-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/21/2020	ND	432	108	400	0.00	

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*=Accredited Analyte

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Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/20/2020	Sampling Date:	05/15/2020
Reported:	05/21/2020	Sampling Type:	Soil
Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - SHELDON H.		

Sample ID: BG - 1 5' (H001380-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/21/2020	ND	432	108	400	0.00	

Sample ID: BG - 1 6' (H001380-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/21/2020	ND	432	108	400	0.00		

Sample ID: BG - 1 7' R (H001380-07)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/21/2020	ND	432	108	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

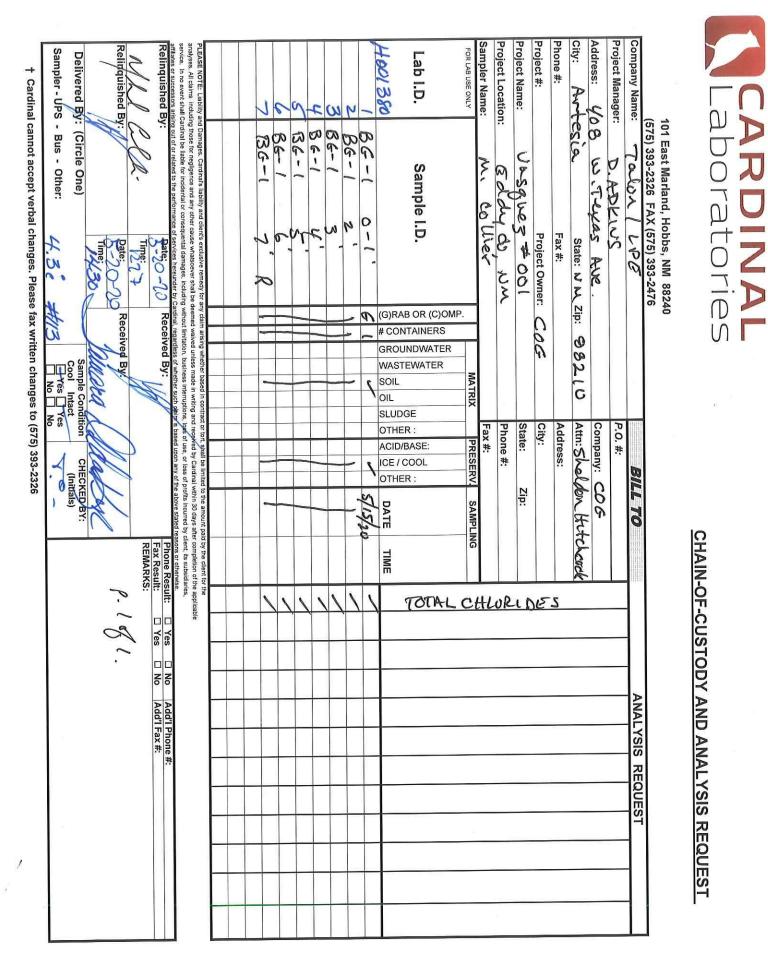
*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 7/7/2020 12:52:45 PM



Page 29 of 44

Page 5 of 5



May 21, 2020

DAVID ADKINS TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VASQUEZ #001

Enclosed are the results of analyses for samples received by the laboratory on 05/20/20 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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)

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

Celey D. Keene Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/20/2020	Sampling Date:	05/15/2020
Reported:	05/21/2020	Sampling Type:	Soil
Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO		

Sample ID: BG - 2 0-1' (H001384-01)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/21/2020	ND	400	100	400	7.69	

Sample ID: BG - 2 2' (H001384-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/21/2020	ND	400	100	400	7.69	

Sample ID: BG - 2 3' (H001384-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/21/2020	ND	400	100	400	7.69	

Sample ID: BG - 2 4' (H001384-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/21/2020	ND	400	100	400	7.69	

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/20/2020	Sampling Date:	05/15/2020
Reported:	05/21/2020	Sampling Type:	Soil
Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO		

Sample ID: BG - 2 5' (H001384-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/21/2020	ND	400	100	400	7.69	

Sample ID: BG - 2 6' (H001384-06)

Chloride, SM4500Cl-B	I500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/21/2020	ND	400	100	400	7.69	

Sample ID: BG - 2 7' (H001384-07)

Chloride, SM4500Cl-B	500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/21/2020	ND	400	100	400	7.69	

Sample ID: BG - 2 8' (H001384-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/21/2020	ND	400	100	400	7.69	

Sample ID: BG - 2 9' (H001384-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/21/2020	ND	400	100	400	7.69	

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Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/20/2020	Sampling Date:	05/15/2020
Reported:	05/21/2020	Sampling Type:	Soil
Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO		

Sample ID: BG - 2 10' (H001384-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/21/2020	ND	400	100	400	7.69	

Sample ID: BG - 2 11' R (H001384-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/21/2020	ND	400	100	400	7.69	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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	10: TALOU/LPG	Company Name:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or for. Snall-de limited to the amount pad by the client for the PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or for. Snall-de limited to the amount pad by the client for the PLEASE NOTE: Liability and client's exclusive remedy for any claim arising whether based in contract or for. Snall-de limited to the amount pad by the client for the playele limited to the amount pad by the client for the playele limited to the amount pad by the client for the playele limited to the amount pad by the client for the playele limited to the amount playele limited to the	service. In no event shall Cardinal be liable for	r incidental or consequental damages, including without limitation, dusiness to the performance of services hereunder by Cardinal, regardless of whet	ther such claim is based upon any of the above stated reasons or o
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+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



May 21, 2020

DAVID ADKINS TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VASQUEZ #001

Enclosed are the results of analyses for samples received by the laboratory on 05/20/20 14:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/20/2020	Sampling Date:	05/15/2020
Reported:	05/21/2020	Sampling Type:	Soil
Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO		

### Sample ID: BG - 3 0-1' (H001381-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/21/2020	ND	432	108	400	0.00	

### Sample ID: BG - 3 2' (H001381-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/21/2020	ND	432	108	400	0.00	

### Sample ID: BG - 3 3' (H001381-03)

Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/21/2020	ND	432	108	400	0.00	

### Sample ID: BG - 3 4' (H001381-04)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/21/2020	ND	432	108	400	0.00	

### **Cardinal Laboratories**

### *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/20/2020	Sampling Date:	05/15/2020
Reported:	05/21/2020	Sampling Type:	Soil
Project Name:	VASQUEZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO		

### Sample ID: BG - 3 5' (H001381-05)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/21/2020	ND	432	108	400	0.00	

### Sample ID: BG - 3 6' R (H001381-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/21/2020	ND	432	108	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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

### **Cardinal Laboratories**

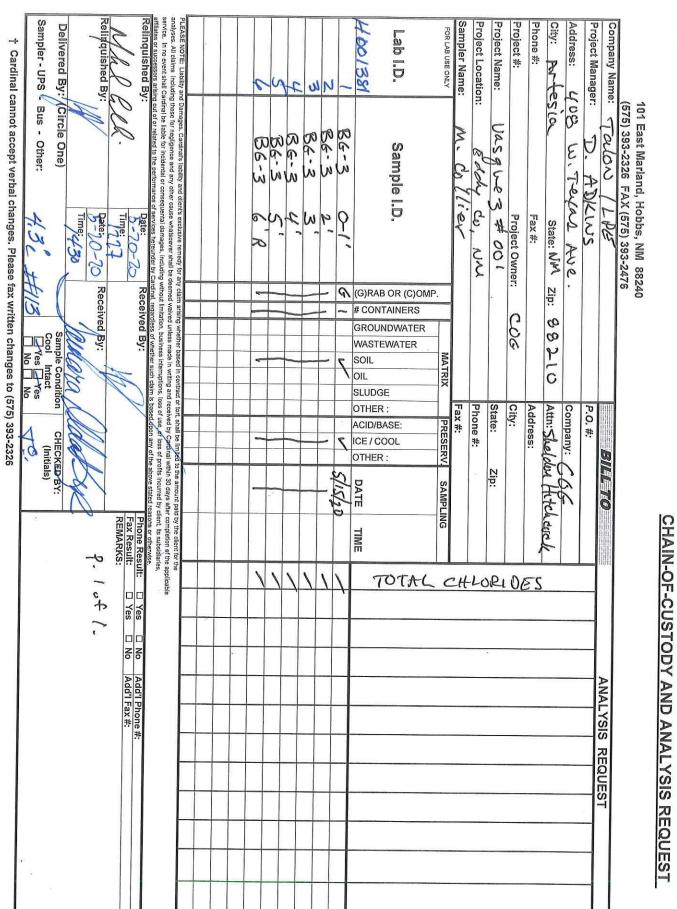
### *=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Received by OCD: 7/7/2020 12:52:45 PM



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# APPENDIX D

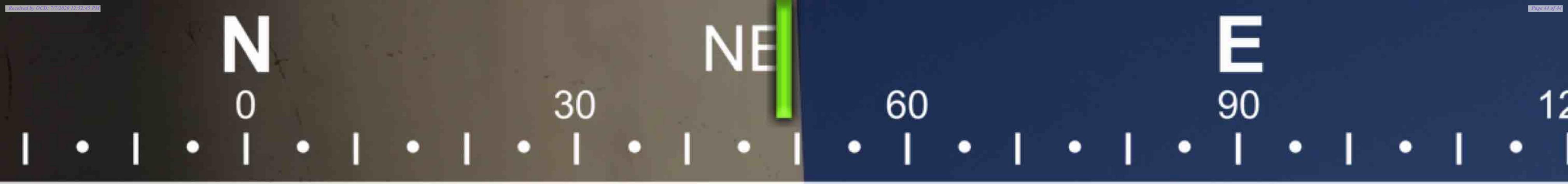


# ③ 159°S (T) ④ 32°13.877', -104°3.375' ±16ft ▲ 2967ft



# EDDY COUNTY, NM API #30-015-23850

# 10 Oct 2019, 10:20:11



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