



August 03, 2018

SHELDON HITCHCOCK

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: PATRON 23 FED #4 H

Enclosed are the results of analyses for samples received by the laboratory on 08/02/18 13:45.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 SHELDON HITCHCOCK
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 08/02/2018
 Reported: 08/03/2018
 Project Name: PATRON 23 FED #4 H
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/02/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: N. SIDEWALL (H802108-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/03/2018	ND	416	104	400	3.92	

Sample ID: S. SIDEWALL (H802108-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/03/2018	ND	416	104	400	3.92	

Sample ID: E. SIDEWALL (H802108-03)

Chloride, SM4500CI-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	08/03/2018	ND	416	104	400	3.92	

Sample ID: W. SIDEWALL (H802108-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2018	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Concho Resources		P.O. #:	
Project Manager: Sheldon Hitchcock		Company: COG	
Address: 2407 Pecos Avenue		Attn: Robert McNeill	
City: Artesia	State: NM zip: 88210	Address:	
Phone #: 575-703-6475	Fax #:	City:	State: Zip:
Project #:	Project Owner: Concho	Phone #:	Fax #:
Project Name: Paton 23 Fed #4 (71117)	Project Location: Eddy Co, NM		
Sampler Name: S. Hitchcock	FOR LAB USE ONLY		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H8D21D8	1 N. Side Wall	G	1						8/21/8	9:20	Chlorides	
	2 S. Side Wall	G	1							9:25	/	
	3 E. Side Wall	G	1							9:30	/	
	4 W. Side Wall	G	1							9:35	/	

Relinquished By: <i>Sheldon Hitchcock</i>	Date: 8/21/8	Received By: <i>Robert McNeill</i>	Date: 8/21/8
Refiniquished By: <i>Sheldon Hitchcock</i>	Time: 1:45	Received By: <i>Robert McNeill</i>	Time: 1:45

Delivered By: (Circle One) #75	Sample Condition	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other: <i>5:40/5:35c</i>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	

REMARKS: *RUSH*

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

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