

April 06, 2016

MIKE STUBBLEFIELD

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ATOKA SAN ANDRES UNIT NO. 141

Enclosed are the results of analyses for samples received by the laboratory on 04/05/16 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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.

Celey D. Keine

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



R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/05/2016 Sampling Date: 04/05/2016

Reported: 04/06/2016 Sampling Type: Soil

Project Name: ATOKA SAN ANDRES UNIT NO. 141 Sampling Condition: Cool & Intact
Project Number: 30-015-10550 Sample Received By: Jodi Henson

Project Location: UT. J SEC. 13 T185 R26E

Sample ID: S-5 32.74652-104.33421 (H600722-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/06/2016	ND	416	104	400	3.92	
Sample ID: S-6 32.74657	7-104.33424 (H	1600722-02)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/06/2016	ND	416	104	400	3.92	
Sample ID: S-7 32.74666	5-104.33424 (H	1600722-03)							
Chloride, SM4500CI-B									
Cilioride, SM4500CI-B	mg	/kg	Analyze	а ву: АР					
Analyte	Result	/kg Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			-	•	BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed	Method Blank		,	•		Qualifier
Analyte Chloride Sample ID: S-8 32.74657	Result	Reporting Limit 16.0 1600722-04)	Analyzed	Method Blank ND		,	•		Qualifier
Analyte	Result 368 7-104.33415 (F	Reporting Limit 16.0 1600722-04)	Analyzed 04/06/2016	Method Blank ND		,	•		Qualifier

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kreine



R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/05/2016 Sampling Date: 04/05/2016

Reported: 04/06/2016 Sampling Type: Soil

Project Name: ATOKA SAN ANDRES UNIT NO. 141 Sampling Condition: Cool & Intact
Project Number: 30-015-10550 Sample Received By: Jodi Henson

Project Location: UT. J SEC. 13 T185 R26E

Sample ID: S-9 32.74675-104.33413 (H600722-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	04/06/2016	ND	416	104	400	3.92	
Sample ID: S-10 32.7467	77-104.33413	(H600722-06)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	04/06/2016	ND	416	104	400	3.92	

Sample ID: S-11 2' BGS 32.74657-104.33421 (H600722-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/06/2016	ND	416	104	400	3.92	

Sample ID: S-12 2' BGS 32.74665-104.33421 (H600722-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	04/06/2016	ND	416	104	400	3.92	

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R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/05/2016 Sampling Date: 04/05/2016

Reported: 04/06/2016 Sampling Type: Soil

Project Name: ATOKA SAN ANDRES UNIT NO. 141 Sampling Condition: Cool & Intact
Project Number: 30-015-10550 Sample Received By: Jodi Henson

Project Location: UT. J SEC. 13 T185 R26E

Sample ID: S-13 2' BGS 32.74673-104.33421 (H600722-09)

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	04/05/2016	ND	2.02	101	2.00	1.46	
Toluene*	<0.050	0.050	04/05/2016	ND	1.93	96.4	2.00	1.02	
Ethylbenzene*	<0.050	0.050	04/05/2016	ND	1.69	84.7	2.00	0.715	
Total Xylenes*	<0.150	0.150	04/05/2016	ND	5.28	88.1	6.00	0.873	
Total BTEX	<0.300	0.300	04/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/06/2016	ND	416	104	400	3.92	
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	04/05/2016	ND	175	87.3	200	6.15	

Surrogate: 1-Chlorooctane 85.7 % 35-147

<10.0

10.0

Surrogate: 1-Chlorooctadecane 93.7 % 28-171

Sample ID: S-13 6' BGS (H600722-10)

DRO >C10-C28

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/06/2016	ND	416	104	400	3.92	

ND

163

81.4

200

6.29

04/05/2016

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R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/05/2016 Sampling Date: 04/05/2016

Reported: 04/06/2016 Sampling Type: Soil

Project Name: ATOKA SAN ANDRES UNIT NO. 141 Sampling Condition: Cool & Intact
Project Number: 30-015-10550 Sample Received By: Jodi Henson

Project Location: UT. J SEC. 13 T185 R26E

Sample ID: S-14 BACKGROUND 32.74677-104.33454 (H600722-11)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 256 04/06/2016 ND 416 104 400 3.92 16.0

Sample ID: S-15 32.74688-104.33422 (H600722-12)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	04/06/2016	ND	416	104	400	3.92	

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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

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

Company Name: A.T. Hicks Consultants		BILL TO	ANALYSIS REQUEST
Project Manager: Mike Stubble field	P.O. #:		
Address: 2411 South 13th STreet	Comp	Company: LRE	
City: A. Tesia State: N.A. Zip: 88210	28210 Attn:	Mike Barrett	
Phone #: 528-365-5034 Fax #:	Addre	Address: R347-2, N. 24th St.	
Project #: 30-015-10550 Project Owner: Line Rock Res	e Rock Res. City:	Artoga	
Project Name: A Toka San Andres Unit No. 141		State: NM Zip: 82210	
Project Location: UT. J Sec. 13 T185 RALE		Phone #: 505-353- 2644	
Sampler Name: migels 6.0000 told	Fax #:		EK
┑	MATRIX PR	PRESERV. SAMPLING	31
Historia. Sample I.D. (G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER:	8015 M - TO 8020B - TO Tal Chi
5.5 32.7467-104,33421 G		_	
4x466, 401-65944. TE	\		
	\	415/K 8:10A	
	\	1 1/5/4 8:18A	
	\	/ 4/5/16 8: 20A	
5 81488701-16944. 28 01-5 0	\	1 4/5/16 81254	
2-11-2	\		\
8 5.12 2' 69532.7865 6	\	1 4/5/16 8:35 A	
9 5.13 2 695 22:24693 6	\ \	1 4/5/14 8:400	
10 5-13 6' 595 " 154.3342 G		/ W/S/16 9:00 A	
Ω	arising whether based in contract or tort, sh	all be limited to the amount paid by the client i	The state of the s

Relinquished By: Relinquished By:	Time: Redelived By: Redelived By: Received By:	Fax Result: Yes No Add'l Fax #: REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact (Infilials) Tes Dives	

7. ..



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

			- 1
Company Name: R.T. Hicks Consultants	· SAVE	BILL 10	ANALYSIS REQUEST
Project Manager: Mike STubble field		P.O. #:	
Address: 2411 5. 13th Street		Company: LRE	
ate: NM	Zip: 88210	Attn: Bike Barrett	
Phone #: 575-365-5034 Fax #:		Address: \$347.2 N. 2676	
	Project Owner: Line Rock Res	City: Rrteria	
Project Name: Atoka San Andres Vit No. 141		State: Nm Zip: 88710	
Project Location: UT. 7 Sec. 19-7185- R26E		Phone #: 505 353-2649	
Sampler Name: Michel State Lived		_	
FOR LAB USE ONLY		PRESERV. SAMPLING	<i>i</i> i d
Lab I.D. Sample I.D.	- UDGE		Total chlo
H600722	# C GR WA SOIL SLU	OT DATE TIME	
11 9-14 Back ground	9	1 4/8/16 9:15A	
12-15 5-15 32.74688	\ \	/ 4/5/16 5:45A	
-104, 33422			
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dain arising whether based in contract or tort, shall be limited to the amount paid by the client for the	my claim arising whether based in contract o	or tort, shall be limited to the amount paid by the client for th	8

Miles Stolle news Relinquished By: analyses. All claims including those for negligence ar service. In no event shall Cardinal be liable for incide Time: Received By: ns, loss of use, or loss of profits incurred by client, its subsidiaries Fax Result: REMARKS: Phone Result: Rust!! ☐ Yes ☐ No Add'I Phone #:

Sample Condition

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393/2476 Cool Intact

Interpretation of the cool interpretation of the coo

3.00

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

2-2

Page 8 of 8