

# Additional Information

Notice of publication  
and  
ground water sample  
analysis

# Affidavit of Publication

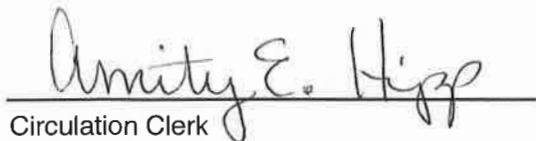
STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

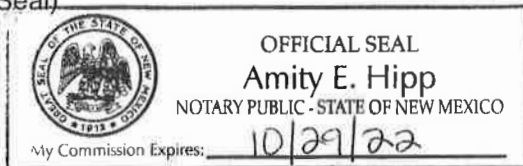
Beginning with the issue dated  
November 19, 2019  
and ending with the issue dated  
November 19, 2019.

  
Publisher

Sworn and subscribed to before me this  
19th day of November 2019.

  
Circulation Clerk

My commission expires  
October 29, 2022  
(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL	LEGAL
<b>LEGAL NOTICE NOVEMBER 19, 2019</b>	
<b>APPLICATION FOR AUTHORIZATION TO INJECT</b>	
NOTICE IS HEREBY GIVEN: That Select Energy Services, 1820 N I-35, Gainesville, TX 76240, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:	
PURPOSE: The intended purpose of the injection well is to dispose of saltwater produced from permitted oil and gas wells.	
WELL NAME AND LOCATION: <u>Bran 1 Federal SWD #1</u> <u>Located 26.80 miles southeast of Malaga, NM</u> <u>NW 1/4 SE 1/4, Section 21, Township 26S, Range 32E</u> <u>1.412' FSL &amp; 2.229' FEL</u> <u>Lea County, NM</u>	
NAME AND DEPTH OF DISPOSAL ZONE: <u>Devonian - Silurian (17,132' - 18,620')</u>	
EXPECTED MAXIMUM INJECTION RATE: <u>30,000 Bbls/day</u>	
EXPECTED MAXIMUM INJECTION PRESSURE: <u>3,426 psi (surface)</u>	
Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.	
Additional information may be obtained by contacting Nate Alleman at 918-382-7581. #34872	

67115320

00236181

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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November 26, 2019

NATE ALLEMAN

ALL CONSULTING, LLC

1718 S. CHEYENNE AVE.

TULSA, OK 74119

RE: GW-1 WATER SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 11/12/19 13:40.

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/qa/lab\\_accred\\_certif.html](http://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, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

ALL CONSULTING, LLC  
NATE ALLEMAN  
1718 S. CHEYENNE AVE.  
TULSA OK, 74119  
Fax To: NA

Received: 11/12/2019  
Reported: 11/26/2019  
Project Name: GW-1 WATER SAMPLES  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 11/12/2019  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02323 - GW-1 (H903838-01)**

Barium 200.2 by ICP		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Barium*	0.027	0.500	11/22/2019	ND	1.98	99.0	2.00	1.03	J

Received: 11/12/2019  
Reported: 11/26/2019  
Project Name: GW-1 WATER SAMPLES  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 11/12/2019  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02323 - GW-1 (H903838-01)**

Bicarbonate 310.1		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Alkalinity, Bicarbonate	229	5.00	11/13/2019	5.00	318			4.02	

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/13/2019	ND	0.020	99.3	0.0200	1.96	
Toluene*	<0.001	0.001	11/13/2019	ND	0.020	99.5	0.0200	3.37	
Ethylbenzene*	<0.001	0.001	11/13/2019	ND	0.021	103	0.0200	3.11	
Total Xylenes*	<0.003	0.003	11/13/2019	ND	0.060	101	0.0600	3.25	
Total BTX	<0.006	0.006	11/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 74-98

Cardinal Laboratories

\*=Accredited Analyte

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

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**Sample ID: C-02323 - GW-1 (H903838-01)**

Calcium 200.2 by ICP		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Calcium*	338	1.00	11/22/2019	ND	4.05	101	4.00	0.0388	

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Carbonate 310.1		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Alkalinity, Carbonate	<1.00	1.00	11/13/2019	ND	ND				
Chloride, SM4500Cl-B		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	332	4.00	11/13/2019	ND	104	104	100	0.00	
Conductivity 120.1		uS/cm		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Conductivity*	3040	1.00	11/13/2019		52100	104	50000		

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**Sample ID: C-02323 - GW-1 (H903838-01)**

Hardness, 200.2 Metals		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Hardness as CaCO3	1350	6.62	11/22/2019						
Iron 200.2 by ICP		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Iron*	<0.500	0.500	11/22/2019	ND	4.01	100	4.00	0.251	
Magnesium 200.2 by ICP		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Magnesium*	124	1.00	11/22/2019	ND	20.2	101	20.0	0.0360	

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pH		pH Units		Analyzed By: AC						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*		7.24	0.100	11/13/2019		7.06	101	7.00		

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**Sample ID: C-02323 - GW-1 (H903838-01)**

Potassium 200.2 by ICP		mg/L	Analyzed By: AES						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Potassium*	9.77	10.0	11/22/2019	ND	8.45	106	8.00	0.486	J

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Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02323 - GW-1 (H903838-01)**

Resistivity 120.1		Ohms/m	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Resistivity	3.29		11/13/2019						

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**Sample ID: C-02323 - GW-1 (H903838-01)**

Sodium 200.2 by ICP		mg/L		Analyzed By: AES						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sodium*	125	10.0	11/22/2019	ND	3.26	101	3.24	0.213		
Strontium 200.2 by ICP		mg/L		Analyzed By: AES						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Strontium*	6.84	1.00	11/22/2019	ND	4.03	101	4.00	0.372		

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 Sampling Condition: Cool & Intact  
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Project Location: NOT GIVEN

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Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02323 - GW-1 (H903838-01)**

Sulfate 375.4		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	434	62.5	11/13/2019	ND	19.5	97.4	20.0	1.60		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1940	5.00	11/19/2019	ND	564	107	527			
Total Alkalinity 310.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Alkalinity, Total*	188	4.00	11/13/2019	4.00	260	104	250	3.92		
TSS, 160.2		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TSS*	<2.00	2.00	11/15/2019	ND						

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Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 11/12/2019  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02959 - GW-1 (H903838-02)**

Barium 200.2 by ICP		mg/L		Analyzed By: AES						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Barium*	0.019	0.500	11/22/2019	ND	1.94	96.8	2.00	2.59	J	

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

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NATE ALLEMAN  
1718 S. CHEYENNE AVE.  
TULSA OK, 74119  
Fax To: NA

Received: 11/12/2019  
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Project Name: GW-1 WATER SAMPLES  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 11/12/2019  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02959 - GW-1 (H903838-02)**

Bicarbonate 310.1		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Alkalinity, Bicarbonate	156	5.00	11/13/2019	5.00	318			4.02	
BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/13/2019	ND	0.020	99.3	0.0200	1.96	
Toluene*	<0.001	0.001	11/13/2019	ND	0.020	99.5	0.0200	3.37	
Ethylbenzene*	<0.001	0.001	11/13/2019	ND	0.021	103	0.0200	3.11	
Total Xylenes*	<0.003	0.003	11/13/2019	ND	0.060	101	0.0600	3.25	
Total BTEX	<0.006	0.006	11/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 74-98

Received: 11/12/2019  
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Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 11/12/2019  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02959 - GW-1 (H903838-02)**

Calcium 200.2 by ICP		mg/L		Analyzed By: AES						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Calcium*</b>	<b>545</b>	1.00	11/22/2019	ND	3.70	92.5	4.00	3.86		

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 Sample Received By: Tamara Oldaker

**Sample ID: C-02959 - GW-1 (H903838-02)**

Carbonate 310.1		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Alkalinity, Carbonate	<1.00	1.00	11/13/2019	ND	ND				
Chloride, SM4500Cl-B		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	96.0	4.00	11/13/2019	ND	104	104	100	0.00	
Conductivity 120.1		uS/cm		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Conductivity*	3800	1.00	11/13/2019		52100	104	50000		

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**Sample ID: C-02959 - GW-1 (H903838-02)**

Hardness, 200.2 Metals		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Hardness as CaCO<sub>3</sub></b>	<b>2000</b>	6.62	11/22/2019						
Iron 200.2 by ICP		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Iron*</b>	<b>0.198</b>	0.500	11/22/2019	ND	3.78	94.6	4.00	2.21	J
Magnesium 200.2 by ICP		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Magnesium*</b>	<b>155</b>	1.00	11/22/2019	ND	19.4	96.9	20.0	3.17	

 Received: 11/12/2019  
 Reported: 11/26/2019  
 Project Name: GW-1 WATER SAMPLES  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 11/12/2019  
 Sampling Type: Water  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C-02959 - GW-1 (H903838-02)**

pH		pH Units		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>pH*</b>	<b>8.75</b>	0.100	11/13/2019		7.06	101	7.00		

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

**Analytical Results For:**

ALL CONSULTING, LLC  
NATE ALLEMAN  
1718 S. CHEYENNE AVE.  
TULSA OK, 74119  
Fax To: NA

Received: 11/12/2019  
Reported: 11/26/2019  
Project Name: GW-1 WATER SAMPLES  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 11/12/2019  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02959 - GW-1 (H903838-02)**

Potassium 200.2 by ICP		mg/L		Analyzed By: AES					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Potassium*	7.58	10.0	11/22/2019	ND	7.94	99.3	8.00	1.18	J

Received: 11/12/2019  
Reported: 11/26/2019  
Project Name: GW-1 WATER SAMPLES  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 11/12/2019  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: C-02959 - GW-1 (H903838-02)**

Resistivity 120.1		Ohms/m		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Resistivity	2.63		11/13/2019						

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Sampling Date: 11/12/2019  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

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 Project Number: NONE GIVEN  
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 Sampling Date: 11/12/2019  
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 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C-02959 - GW-1 (H903838-02)**

Sodium 200.2 by ICP		mg/L		Analyzed By: AES						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sodium*	253	10.0	11/22/2019	ND	3.15	97.3	3.24	1.62		
Strontium 200.2 by ICP		mg/L		Analyzed By: AES						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Strontium*	7.93	1.00	11/22/2019	ND	3.90	97.4	4.00	0.764		

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 Reported: 11/26/2019  
 Project Name: GW-1 WATER SAMPLES  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 11/12/2019  
 Sampling Type: Water  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

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**Sample ID: C-02959 - GW-1 (H903838-02)**

Sulfate 375.4		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	2160	500	11/13/2019	ND	19.5	97.4	20.0	1.60		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	3480	5.00	11/19/2019	ND	564	107	527			
Total Alkalinity 310.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Alkalinity, Total*	128	4.00	11/13/2019	4.00	260	104	250	3.92		
TSS, 160.2		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TSS*	9.00	2.00	11/18/2019	ND						

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

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
J	Estimated concentration. Analyte concentration between MDL and RL.
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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Company Name: ALL Consulting

## ANALYSIS REQUEST

Am'ons

[illegible]

Relinquished By:

[illegible]

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

maileman@a1-c.com, o5ekins@a1-c.com

REMARKS:

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)