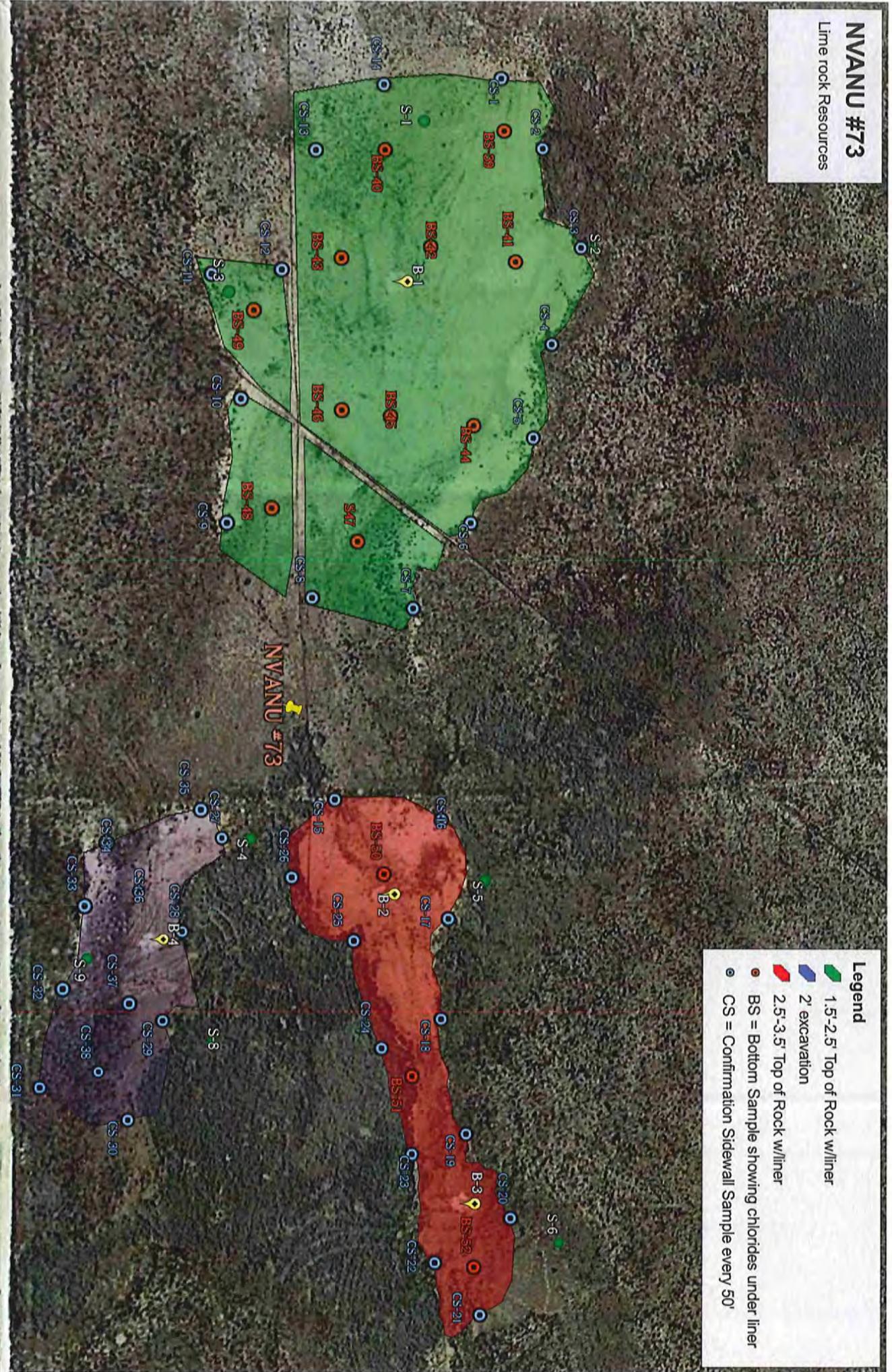


# NVANU #73

Lime rock Resources



### Legend

- 1.5'-2.5' Top of Rock williner
- 2' excavation
- 2.5'-3.5' Top of Rock williner
- BS = Bottom Sample showing chlorides under liner
- CS = Confirmation Sidewall Sample every 50'



# NVANU #73

Lime rock Resources



## Legend

- 1.5'-2.5' Top of Rock w/liner
- BS = Bottom Sample showing chlorides under liner
- CS = Confirmation Sidewall Sample every 50'

# NVANU #73

Lime rock Resources

**Legend**

- 2.5'-3.5' Top of Rock w/liner
- BS = Bottom Sample showing chlorides under liner
- B-3
- CS = Confirmation Sidewall Sample every 50'



# NVANU #73

Lime rock Resources

S-4

CS-27

CS-35

CS-135

B-4

CS-28

CS-33

S-9

CS-32

S-8

CS-37

CS-29

CS-38

CS-31

CS-30

## Legend

-  2' excavation
-  CS = Confirmation Sidewall Sample every 50'



NVANU #73 -- Sample Locations & GPS

Sample ID	Depth (Feet)	Chlorides	GPS Coordinates	Sample ID	Depth (Feet)	Chlorides	GPS Coordinates
CS-1	1.50	192	32.866338 -103.515695	CS-25	2.00	416	32.866142 -103.514399
CS-2	1.50	48	32.866397 -103.515598	CS-26	2.00	96	32.866061 -103.514496
CS-3	1.50	<16.0	32.866454 -103.515453	CS-27	1.00	16	32.865969 -103.514556
CS-4	1.50	496	32.866412 -103.515300	CS-28	2.00	544	32.865925 -103.514426
CS-5	1.50	400	32.866386 -103.515154	CS-29	2.00	496	32.865902 -103.514302
CS-6	1.50	32	32.866298 -103.515020	CS-30	2.00	272	32.865861 -103.514167
CS-7	1.50	32	32.866219 -103.514889	CS-31	2.00	224	32.865758 -103.514223
CS-8	2.00	128	32.866080 -103.514899	CS-32	2.00	64	32.865783 -103.514356
CS-9	1.50	48	32.865976 -103.515006	CS-33	2.00	144	32.865817 -103.51446
CS-10	1.50	176	32.865992 -103.515192	CS-34	2.00	400	32.865834 -103.514555
CS-11	1.50	80	32.865949 -103.515351	CS-35	2.00	64	32.865947 -103.514597
CS-12	1.50	64	32.866045 -103.515373	CS-36	2.00	448	32.865873 -103.514485
CS-13	1.50	272	32.866066 -103.515552	CS-37	2.00	256	32.865862 -103.514329
CS-14	1.50	16	32.866170 -103.515669	CS-38	2.00	400	32.865826 -103.514238
CS-15	2.00	112	32.866115 -103.514607				
CS-16	2.00	416	32.866258 -103.514573				
CS-17	2.00	16	32.866269 -103.514424				
CS-18	2.00	512	32.866260 -103.514274				
CS-19	2.00	240	32.866296 -103.514095				
CS-20	2.00	80	32.866358 -103.513960				
CS-21	2.00	48	32.866315 -103.513820				
CS-22	2.00	400	32.866252 -103.513908				
CS-23	2.00	32	32.866222 -103.514074				
CS-24	2.00	32	32.866179 -103.514237				

Sample ID	Depth (Feet)	Chlorides	GPS Coordinates
BS-39	1.50	3160	32.866343 -103.515617
BS-40	1.50	2080	32.866180 -103.515565
BS-41	1.50	4560	32.866397 -103.515598
BS-42	1.50	6160	32.866359 -103.515421
BS-43	1.50	2480	32.866242 -103.515430
BS-44	1.50	1880	32.866122 -103.515399
BS-45	1.50	4720	32.866187 -103.515172
BS-46	1.50	3560	32.866122 -103.515176
BS-47	1.50	1800	32.866144 -103.514985
BS-48	1.50	976	32.866033 -103.515029
BS-49	1.50	1100	32.866010 -103.515310
BS-50	2.00	5280	32.866182 -103.514495
BS-51	2.00	1230	32.866221 -103.514191
BS-52	2.00	13800	32.866307 -103.513893



December 27, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NVANU #73

Enclosed are the results of analyses for samples received by the laboratory on 12/22/17 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/22/2017	Sampling Date:	12/20/2017
Reported:	12/27/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: CS-1 @ 1.5' (H703589-01)**

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	12/27/2017	ND	432	108	400	3.64	

**Sample ID: CS-2 @ 1.5' (H703589-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2017	ND	432	108	400	3.64	

**Sample ID: CS-3 @ 1.5' (H703589-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/27/2017	ND	432	108	400	3.64	

**Sample ID: CS-4 @ 1.5' (H703589-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/27/2017	ND	432	108	400	3.64	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/22/2017	Sampling Date:	12/20/2017
Reported:	12/27/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: CS-5 @ 1.5' (H703589-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	12/27/2017	ND	432	108	400	3.64	

**Sample ID: CS-6 @ 1.5' (H703589-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/27/2017	ND	432	108	400	3.64	

**Sample ID: CS-7 @ 1.5' (H703589-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/27/2017	ND	432	108	400	3.64	

**Sample ID: CS-8 @ 1.5' (H703589-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2600</b>	16.0	12/27/2017	ND	432	108	400	3.64	

**Sample ID: CS-9 @ 1.5' (H703589-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	12/27/2017	ND	432	108	400	3.64	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/22/2017	Sampling Date:	12/20/2017
Reported:	12/27/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: CS-10 @ 1.5' (H703589-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-11 @ 1.5' (H703589-11)**

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	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-12 @ 1.5' (H703589-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-13 @ 1.5' (H703589-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-14 @ 1.5' (H703589-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/27/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/22/2017	Sampling Date:	12/20/2017
Reported:	12/27/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: CS-15 @ 2.0' (H703589-15)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-17 @ 2.0' (H703589-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-18 @ 2.0' (H703589-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-19 @ 2.0' (H703589-18)**

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	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-20 @ 2.0' (H703589-19)**

Chloride, SM4500CI-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	12/27/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/22/2017	Sampling Date:	12/20/2017
Reported:	12/27/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: CS-21 @ 2.0' (H703589-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-22 @ 2.0' (H703589-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-23 @ 2.0' (H703589-22)**

Chloride, SM4500Cl-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	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-24 @ 2.0' (H703589-23)**

Chloride, SM4500Cl-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	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-25 @ 2.0' (H703589-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	12/27/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/22/2017	Sampling Date:	12/20/2017
Reported:	12/27/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: CS-26 @ 2.0' (H703589-25)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	12/27/2017	ND	432	108	400	0.00	

**Sample ID: CS-27 @ 1.0' (H703589-26)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	12/27/2017	ND	432	108	400	0.00	

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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

---

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\*=Accredited Analyte

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---

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

Page 1 of 3

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE  
 Project Manager: Kimberly M. Wilson  
 Address: 408 W Texas Ave.  
 City: Artesia State: NM Zip 88210  
 Phone #: (575) 746-8768 Fax #: (575) 746-8905  
 Project #: 701307.086.01 Project Owner: Lime Rock  
 Project Name: NVANU #73  
 Project Location: G-1-17S-34E Lea County  
 Sampler Name: Kimberly Wilson

P.O. #: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TOTAL CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
#703589	CS - 1 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	11:45 AM	/	
	CS - 2 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	12:45 PM	/	
	CS - 3 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	13:10 PM	/	
	CS - 4 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	12:00 PM	/	
	CS - 5 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	12:40 PM	/	
	CS - 6 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	12:10 PM	/	
	CS - 7 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	12:20 PM	/	
	CS - 8 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	12:55 PM	/	
	CS - 9 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	13:00 PM	/	
	CS - 10 @ 1.5'	G	1	/	/	/	/	/	/	/	12/20/2017	13:05 PM	/	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising in contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Kimberly M. Wilson* Date: *12-22-17* Time: *12:00*  
 Received By: *Paul Dwyer* Date: *12-22-17* Time: *12:22:14*  
 Delivered By: (Circle One) *1.8g* Sample Condition:  Intact  Cool  Yes  No  
 Other: *1.45 corrected* CHECKED BY: *Paul Dwyer* (Initials)  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: *Rish 11*

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 2 of 3

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon/LPE  
 Project Manager: Kimberly M. Wilson  
 Address: 408 W Texas Ave.  
 City: Artesia State: NM Zip 88210  
 Phone #: (575) 746-8768 Fax #: (575) 746-8905  
 Project #: 701307.086.01 Project Owner: Lime Rock  
 Project Name: NVANU #73  
 Project Location: G-1-17S-34E Lea County  
 Sample Name: Kimberly Wilson  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TOTAL CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
11	CS - 11 @ 1.5'	G 1	1	/	/	/	/	/	12/20/2017	13:55 PM	/	
12	CS - 12 @ 1.5'	G 1	1	/	/	/	/	/	12/20/2017	13:30 PM	/	
13	CS - 13 @ 1.5'	G 1	1	/	/	/	/	/	12/20/2017	13:45 PM	/	
14	CS - 14 @ 1.5'	G 1	1	/	/	/	/	/	12/20/2017	14:15 PM	/	
15	CS - 15 @ 2.0'	G 1	1	/	/	/	/	/	12/20/2017	16:40 PM	/	
16	CS - 17 @ 2.0'	G 1	1	/	/	/	/	/	12/20/2017	16:45 PM	/	
17	CS - 18 @ 2.0'	G 1	1	/	/	/	/	/	12/20/2017	14:50 PM	/	
18	CS - 19 @ 2.0'	G 1	1	/	/	/	/	/	12/20/2017	15:00 PM	/	
19	CS - 20 @ 2.0'	G 1	1	/	/	/	/	/	12/20/2017	15:05 PM	/	
20	CS - 21 @ 2.0'	G 1	1	/	/	/	/	/	12/20/2017	15:08 PM	/	

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 the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal. Requests of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: \_\_\_\_\_ Date: 8.22.17  
 Received By: \_\_\_\_\_ Date: 12.22.17  
 Delivered By: (Circle One)  Bus - Other: 1.45 corrected  
 Sample Condition:  Cool  Intact  Yes  No  
 CHECKED BY: \_\_\_\_\_ (Initials) \_\_\_\_\_  
 REMARKS: \_\_\_\_\_  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

\* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon/LPE	P.O. #:
Project Manager: Kimberly M. Wilson	Company:
Address: 408 W Texas Ave.	Attn:
City: Artesia	Address:
Phone #: (575)746-8768	City:
Fax #: (575) 746-8905	State:
Project #: 701307.086.01	Project Owner: Lime Rock
Project Name: NVANU #73	State:
Project Location: G-1-17S-34E	Lea County
Project Name: Kimberly Wilson	Phone #:
Sample Name: Kimberly Wilson	Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TOTAL CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
21	CS - 22 @ 2.0'	G	1	/	/	/	/	/	12/20/2017	15:11 PM	/	
22	CS - 23 @ 2.0'	G	1	/	/	/	/	/	12/20/2017	16:55 PM	/	
23	CS - 24 @ 2.0'	G	1	/	/	/	/	/	12/20/2017	17:00 PM	/	
24	CS - 25 @ 2.0'	G	1	/	/	/	/	/	12/20/2017	15:35 PM	/	
25	CS - 26 @ 2.0'	G	1	/	/	/	/	/	12/20/2017	15:40 PM	/	
26	CS - 27 @ 1.0'	G	1	/	/	/	/	/	12/20/2017	15:45 PM	/	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising under this contract or tort, 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 waived unless made in writing and received by Cardinal within 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 data, or loss of profits incurred by client, its 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.

Relinquished By: <i>Kimberly M. Wilson</i>	Date: 12/22/17	Received By: <i>Paul David</i>	Date: 12/22/17
Time: 1:52p	Time: 1:52p	Time: 1:52p	Time: 1:52p
Delivered By: (Circle One) <i>Paul David</i>	1.8°C	Sample Condition	CHECKED BY: <i>Rishell</i>
Sampler - UPS - Bus - Other: <i>1.45°C correct</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cool Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:			

FORM 999-R-20  
 + Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

---

January 17, 2018

DAVID ADKINS  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: NVANU

Enclosed are the results of analyses for samples received by the laboratory on 01/16/18 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 that reads "Hope S. Moreno".

Hope S. Moreno For Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/16/2018	Sampling Date:	01/16/2018
Reported:	01/17/2018	Sampling Type:	Soil
Project Name:	NVANU	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: S-8 2' (H800176-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-15 2' (H800176-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>624</b>	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-25 2' (H800176-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-28 2' (H800176-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>544</b>	16.0	01/17/2018	ND	416	104	400	7.41	

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 01/16/2018  
 Reported: 01/17/2018  
 Project Name: NVANU  
 Project Number: 701307.086.01  
 Project Location: LEA COUNTY, NM

 Sampling Date: 01/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-29 2' (H800176-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-30 2' (H800176-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-31 2' (H800176-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-32 2' (H800176-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-33 2' (H800176-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/17/2018	ND	416	104	400	7.41	

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/16/2018	Sampling Date:	01/16/2018
Reported:	01/17/2018	Sampling Type:	Soil
Project Name:	NVANU	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: S-34 2' (H800176-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-35 2' (H800176-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1490</b>	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-36 2' (H800176-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>448</b>	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-37 2' (H800176-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	01/17/2018	ND	416	104	400	7.41	

**Sample ID: S-38 2' (H800176-14)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	01/17/2018	ND	416	104	400	7.41	

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno 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

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Cardinal Laboratories

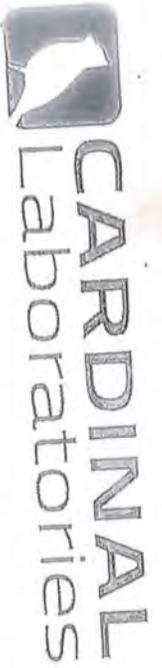
\*=Accredited Analyte

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---

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

BILL TO

Company Name: Talon/PE

Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 701307086.01

Project Name: WANA

Project Location: Lea County

Sampler Name: Skand

FOR LAB USE ONLY

P.O. #:  
 Company: Talon/PE  
 Attn:  
 Address:  
 City:  
 State:  
 Zip:

Phone #:  
 Fax #:

MATRIX PRESERV SAMPLING

Lab ID.	Sample ID.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	REMARKS	Yes	No	Add'l Phone #:	Add'l Fax #:
H800174	5-9.		1										11/19/00	1403	Chlorides				
	5-15.												1403	1406					
	5-25.												1409	1412					
	5-28.												1415	1418					
	5-29.												1421	1424					
	5-30.												1427	1430					
	5-31.												1433	1436					
	5-32.												1439	1442					
	5-33.												1445	1448					
	5-34.												1451	1454					

Progress Note: Liability and Damages. Cardinal's liability and client's evaluation remedy for any other action whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other claims whatsoever shall be deemed voided unless made in writing and received by Cardinal within 90 days after completion of the applicable analysis. In no event shall Cardinal be liable for 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 any services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]  
 Date: 1/6/18  
 Time: 1535  
 Received By: [Signature]  
 Date: [Blank]  
 Time: [Blank]

Delivered By: (Circle One) Y. V.  
 Sampler - UPS - Bus - Other: UPS/Printed 2.65E  
 Sample Condition:  Cool  Ambient  
 Yes  No  
 CHECKED BY: [Signature] (Initials) TD-HYS

REMARKS: Push

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

# CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

**BILL TO**

ANALYSIS REQUEST

Company Name: Talon/LPE  
 Project Manager: D. Adkins

Address: 408 W. Texas Ave. State: NM Zip: 88210

City: Artesia Phone #: 575-746-8768 Fax #: 575-746-8905

Project #: 301307086.01 Project Owner: Lime Rock

Project Name: WYANAC

Project Location: Hill County

Sampler Name: S. Lovel

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
11	5.35	2	6							2-16-19	1430	✓ Chlorides	
12	5.36	2	1								1433		
13	5.37	2	1								1436		
14	5.38	2	1								1439		

**PRINTER NOTE:** Liability and Damages. Cardinal's liability and ability to recover is limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 days after completion of the applicable analysis. 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 associates 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 causes or otherwise.

Relinquished By: *[Signature]* Date: 2-16-19  
 Received By: *[Signature]* Date: 2-16-19

Delivered By: (Circle One) *g.c*  
 Sampler - UPS - Bus - Other: *g.c*

Sample Condition: Cool  Intact   
 Yes  No  Yes  No

Checked By: *[Signature]*  
 Rush

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

January 22, 2018

DAVID ADKINS  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: NVANU #73

Enclosed are the results of analyses for samples received by the laboratory on 01/19/18 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/19/2018	Sampling Date:	01/19/2018
Reported:	01/22/2018	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: S-15 2' (H800220-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	01/22/2018	ND	416	104	400	3.77	

**Sample ID: S-35 2' (H800220-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	01/22/2018	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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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



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Celey D. Keene, Lab Director/Quality Manager



February 02, 2018

DAVID ADKINS  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: NVANU #73

Enclosed are the results of analyses for samples received by the laboratory on 01/30/18 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/30/2018	Sampling Date:	01/30/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: S - 39 (H800320-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3160</b>	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 40 (H800320-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2080</b>	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 41 (H800320-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4560</b>	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 42 (H800320-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6160</b>	16.0	01/31/2018	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/30/2018	Sampling Date:	01/30/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-175-34S LEA COUNTY, NM		

**Sample ID: S - 43 (H800320-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 44 (H800320-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 45 (H800320-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 46 (H800320-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 47 (H800320-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	01/31/2018	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/30/2018	Sampling Date:	01/30/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-175-34S LEA COUNTY, NM		

**Sample ID: S - 48 (H800320-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>976</b>	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 49 (H800320-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1100</b>	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 50 (H800320-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5280</b>	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 51 (H800320-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1230</b>	16.0	01/31/2018	ND	432	108	400	3.77	

**Sample ID: S - 52 (H800320-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>13800</b>	16.0	01/31/2018	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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- RPD Relative Percent Difference
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Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager







January 31, 2018

DAVID ADKINS  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: NVANU #73

Enclosed are the results of analyses for samples received by the laboratory on 01/29/18 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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).

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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 "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/29/2018	Sampling Date:	01/25/2018
Reported:	01/31/2018	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	G-1-17S-34S LEA COUNTY, NM		

**Sample ID: S-16 2' (H800301-01)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	01/30/2018	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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Samples reported on an as received basis (wet) unless otherwise noted on report



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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

1011

ANALYSIS REQUEST

BILL TO

Company Name: Talon/PE

Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 101301086-01

Project Name: New Canyon

Project Location: I band

Sampler Name: I band

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

AW00301

5-16-21

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

3/31/12 12:00

Chlorides

Y

PLASTIC NOTE: Liability and Damages. Cardinal's liability and ability to collect is limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 days after completion of the applicable analysis. In no event shall Cardinal be liable for personal or consequential damages, including without limitation, business interruption, loss of use, or loss of profits, incurred by client, its 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 causes of action.

Relinquished By: [Signature]

Date: 5-18-21

Time: 11:00

Received By: Brandon Dicks

Relinquished By: [Signature]

Date: 7-29-18

Time: 5:00

Received By: [Signature]

Delivered By: (Circle One) 17

Sample Condition: Intact

Checked By: Buo #175

Sample Condition: Intact

Sampler - UPS - Bus - Other: 1952 correct

Sample Condition: Intact

Checked By: Buo #175

Sample Condition: Intact

Sample Condition: Intact

Checked By: Buo #175

Sample Condition: Intact

Sample Condition: Intact

Sample Condition: Intact

Checked By: Buo #175

Sample Condition: Intact

Sample Condition: Intact

Sample Condition: Intact

Checked By: Buo #175

Sample Condition: Intact

Sample Condition: Intact

REMARKS:

Phone Result: Yes No

Fax Result: Yes No

Add'l Phone #:

Add'l Fax #:

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