RECEIVED By JKeyes at 7:52 am, Aug 05, 2016

NOT APPROVED

The proposed work plan does not provide adequate protection to the environment or groundwater resources.



Work Plan Lime Rock Resources II-A, L.P.:

North Vacuum Abo North Unit (NVANU) #1 Battery REVISION II

July 26, 2016

Prepared By:

Sheldon L. Hitchcock TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

Prepared For:

Lime Rock Resources II-A, L.P.

Mr. Jamie Keyes NMOCD District 1 1625 N. French Dr. Hobbs, NM 88240

Subject: Soil Assessment and Remediation Work Plan Lime Rock Resources II-A, L.P. North Vacuum Abo North Unit (NVANU) #1 Battery API # 30-025-24220|1RP-4251|

Dear Mr. Keyes,

Lime Rock Resources (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The NVANU #1 Battery is located approximately fifteen (15) miles west of Lovington, New Mexico. The legal location for this release is Unit Letter N, Section 2, Township 17 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.8586617 North and -103.533493 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Service, the soil in this area is made up of Kimbrough-Lea land complex. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of calcareous-loamy alluvium and calcareous-loamy eolian sands which includes silty soils under lain by sedimentary rock and hard caliche. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water data to be in S10-T17S-R34E. The ground water in Section **10** is reported to be at depth of 92' below ground surface (BGS). See Appendix II for the referenced groundwater data.

Therefore the ranking for this site is a **10** based on the following:

Depth to ground water	50'-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 500 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On March 15, 2016 Talon personnel met with Amber Groves from the New Mexico State Land Office (NMSLO) and Eddie Elliott with Lime Rock Resources at the NVANU #1 Battery to discuss the concerns of the State Land Office. See initial C-141 in Appendix III.

A site assessment and soil sampling activities for the construction of a work plan was performed. During our site assessment no obvious noxious or undesirable weeds such as African rue, locoweed, etc. were noted. Grab soil samples were collected utilizing a hand auger to a depth of 1.5-feet BGS where refusal was encountered.

An air rotary drill rig was then mobilized for further vertical delineation of the impacted area. Vertical delineation sampling was carried out at sample location S-4(B-1) on April 12, 2016. The results from this sampling event were sent to NMOCD and NMSLO. At that time NMOCD requested even further vertical and horizontal delineation of chlorides in this area. On June 15, 2016, Talon personnel returned to the location to obtain additional samples utilizing a backhoe to a depth of between 2-feet and 10-feet BGS where refusal was encountered.

On July 12, 2016 Talon re-mobilized an air rotary drill rig to further delineate the chloride impacts following a site meeting with the NMOCD and the NMSLO. Boreholes were advanced inside of the impacted area at sample locations S-5(B-2), S-6(B-3), and S-9(B-4). Horizontal delineation samples were also taken on the periphery of the impacted area at sample locations B-6 through B-11 as directed by the NMOCD. The results of the sampling events at this location are summarized in the data tables below.

Laboratory Results

See Appendix IV for complete report of laboratory results.

March	21	201	6
Iviai cii	24,	201	ιU

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-4	0'	< 0.300	3200	<10	<10
S-4	1'	< 0.300	6240	<10	<10
S-4 Refusal	1.5'	< 0.300	7280	<10	<10

April 21, 2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
B-1/S-4	5'		736		
B-1 / S-4	10'		1380		
B-1 / S-4	15'		688		
B-1 / S-4	20'		320		
B-1 / S-4	25'		16		
B-1 / S-4	30'		<16		

		6/15/16	6/23/16	7/6/16
Sample ID	Depth (feet)	Field Titration Chlorides (mg/kg)	Cardinal Lab Chlorides (mg/kg)	Xenco Lab Chlorides (mg/kg)
S-5	0'	2245	2840	
S-5	1'	1973	2600	
S-5 Refusal	2'	292	640	
S-6	0'	70	<16	
S-6	1'	70	<16	
S-6	2'	70	16	
S-6	3'	121	192	
S-6	4'	355	1230	945
S-6	5'	497	800	645
S-6	6'	425	672	488
S-6	7'	292	528	515
S-6	8'	355	480	308
S-6	10'	292	432	320
94 36			-	
S-7	0'	2836	3840	
S-7	1'	3191	3640	
S-7 Refusal	2'	493	592	

		6/15/16	6/23/16	7/6/16
Sample ID	Depth (feet)	Field Titration Chlorides (mg/kg)	Cardinal Lab Chlorides (mg/kg)	Xenco Lab Chlorides (mg/kg)
S-8	0'	70	96	31.7
S-8	1'	2552	3040	2440
S-8	2'	3048	3720	3140
S-8	3'	1985	2320	1740
S-8	4'		1260	1190
S-8	5'	567	864	668
S-8	6'	425	768	672
S-8	7'	425	528	520
S-8	9'	212	336	236
S-9	0'	425	784	
S-9	1'	993	1300	
S-9	2'	922	2040	
S-9 Refusal	2.5'	922	1680	

July 12, 2016

Sample ID	Depth (feet)	Chlorides (mg/kg)
B-2/S-5	5	249
B-3/S-6	15	733
B-3/S-6	20	717
B-3/S-6	30	248
B-4/S-7	5	41.5
B-5/S-9	5	1880
B-5/S-9	10	1350
B-5/S-9	15	859
B-5/S-9	20	314
B-5/S-9	25	210
B-6	0	41.6
B-6	5	21.0
B-7	0	ND
B-7	5	15.6
B-8	0	ND
B-8	5	ND
B-9	0	ND
B-9	5	ND
B-10	0	ND
B-10	5	77.5
B-11	0	ND
B-11	5	ND

Proposed Remedial actions

- The impacted areas where refusal with the excavator was encountered at top of rock (B-1, B-2, B-3, B-4 and B-5) will be excavated to the maximum depth possible (approximately 2.0'-2.5' BGS).
- The impacted area in the vicinity of sample locations B-3/S-6 and S-8 will be excavated to a depth of 3-feet BGS.
- All of the excavated material will be hauled to Lea Land LLC, a NMOCD approved solid waste disposal facility.
- The excavated areas where hard rock was not encountered (B-3/S-6 and S-8) will be backfilled with 1-foot of caliche in order to encapsulate the remaining chloride impacts. The remaining depth of the entire excavation will be backfilled with locally obtained topsoil.
- The backfilled area in the pasture will be contoured to match the surrounding terrain and left in a "rough" condition to approximate natural surface deviations, control erosion, and promote revegetation.
- Immediately following preparation of the site, a Culti-Pack Seed Drill will be utilized to plant 1 acre of BLM #3 seed mixture.
- The site will be monitored by Lime Rock Resources personnel to insure proper revegetation is achieved. The NMSLO policy stated the goal is to obtain native plant cover and diversity levels that are equal to or exceeding natural potential levels.
- A final closure report documenting all remedial actions, analytical results, a final C-141 and seeding labels will be provided to the NMOCD District I Hobbs Office and NMSLO along with the Revegetation Forms.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Kindry wilson / ma

Kimberly M. Wilson Project Manager

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David J. Adkins District Manager

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Attachments:

Appendix ISite PlanAppendix IIGroundwater DataAppendix IIIInitial C-141Appendix IVLaboratory Results

APPENDIX I SITE PLAN



APPENDIX II

GROUNDWATER DATA



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)						2=NE 3 st to larg	=SW 4=SI gest) (N	E) IAD83 UTM in me	eters)	(In feet)	
	POD												
POD Number	Sub- Code basin Co	oun		Q Q 16 4		Tws	Rng	х	γ	Distance		Depth Water (
L 03241	L	LE	.,			17S		636425	3636145* 🔵	584	122	92	30
L 06134	L	LE		24	03	17S	34E	636411	3636949* 🌑	710	175	95	80
L 03011	L	LE			02	17S	34E	637425	3637158* 🌍	865	121	80	41
L 05806	L	LE		2 2	. 11	17S	34E	638036	3636179* 🌍	1148	155	105	50
L 02749	L	LE		4 2	! 11	17S	34E	638043	3635776* 🌍	1310	150	85	65
L 06074	L	LE		2 2	2 03	17S	34E	636395	3637753* 🌍	1401	172	95	77
L 06771	L	LE	1	1 1	12	17S	34E	638338	3636287* 🌍	1426	165	86	79
L 03846 X	L	LE		3 3	3 11	17S	34E	636847	3634945* 🌍	1510	200	130	70
L 06894	L	LE	1	4 1	10	17S	34E	635524	3635825* 🌍	1532	175	103	72
L 06766	L	LE	4	1 1	12	17S	34E	638538	3636087* 🌍	1658	160	90	70
L 06752	L	LE	4	4 4	10	17S	34E	636542	3634836* 🌍	1661	170	55	115
L 03846 X2	L	LE		1 1	14	17S	34E	636853	3634543* 🌍	1912	200	90	110
									Avera	ge Depth to	Water	92	feet
										Minimum	Depth	55	feet
										Maximum	Depth:	130	feet

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 636921

Northing (Y): 3636454

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX III INITIAL C-141

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

		OPERATOR	Initial Report	Final Report
Name of Company : LIME ROCK RESOURC	ES II-A, LP	Contact : Mike Barrett		
Address : 1111 Bagby Street Suite 4600, Houst	Telephone No. : 575-365-9724			
Facility Name : North Vacuum Abo North Uni	t #1	Facility Type: Battery		
Surface Owner : State	Mineral Owne	er:	Lease No. 30-025	-24220

Surface Owner : State	Mineral Owner:	Luase 140. 50-045-44440
Bullace o mier i State		

LOCATION OF RELEASE

Unit Letter	Section 2	Township 17S	Range 34E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
-------------	-----------	-----------------	--------------	---------------	------------------	---------------	----------------	-------------

Latitude <u>32.8586617 N</u> Longitude <u>-103.533493 W</u>

NATURE OF RELEASE

Type of Release : Unknown	Volume of Release : Unknown	Volume Rec	overed: Unknown			
Source of Release : Unknown	Date and Hour of Occurrence:	Date and Ho	ur of Discovery:			
	Unknown					
Was Immediate Notice Given?	If YES, To Whom?					
Yes No Not Required						
	Date and Hour:					
By Whom? Amber Groves	If YES, Volume Impacting the Wa	torcourse				
Was a Watercourse Reached?	If YES, volume impacting the wa	lercourse.				
🗌 Yes 🖾 No						
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Taken.* Amber Groves	s with the NM State Land Office an	d the NMOCE) required the bare spot to			
the west behind the battery be delineated to determine the extent of the	ne vertical contamination.					
Describe Area Affected and Cleanup Action Taken.* Lime Rock Reso	urces contacted Talon/LPE to per	form initial sit	te assessment and sampling			
activities in order to generate a work plan						
I hardby continue that the information given above is true and complete to the	he best of my knowledge and underst	and that pursua	nt to NMOCD rules and			
regulations all operators are required to report and/or file certain release n	otifications and perform corrective ac	ctions for releas	ses which may endanger			
with health or the any ironment. The accentance of a C-141 report by the	e NMOCD marked as "Final Report"	does not reliev	e the operator of hability			
should their operations have failed to adequately investigate and remediat	e contamination that pose a threat to	ground water, s	urface water, numan nearm			
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respon	sibility for com	pliance with any other			
federal, state, or local laws and/or regulations.						
	OIL CONSERVATION DIVISION					
Signature: Mul Bart						
	Approved by District Supervisor:					
Printed Name: Michael Barrett						
Title: Production Superintendent	Approval Date:	Expiration Da	ate:			
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval: Attached					
Date: 4/18/2016 Phone: 575-365-9724						

* Attach Additional Sheets If Necessary

APPENDIX IV LABORATORY RESULTS



March 24, 2016

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 03/18/16 12:30.

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/qa/lab accredited 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,

Celez 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: Reported: Project Name: Project Number: Project Location:	03/18/2016 03/24/2016 NVANU 70130707701 LEA COUNTY, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	03/15/2016 Soil Cool & Intact Jodi Henson	
---	--	--	--	--

Sample ID: S-4 0' (H600600-01)

Sample 1D: S-4 0' (H600600-0) BTEX 8021B	mg/l	kg	Analyzed	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2016	ND	2,01	100	2.00	1.37	
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	<0.150	0.150	03/23/2016	ND	5.21	86.9	6.00	2.69	
Total BTEX	<0.300	0.300	03/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.2	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	03/21/2016	ND	416	104	400	8.00	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	<10.0	10.0	03/22/2016	ND	182	91.2	200	8.62	
Surrogate: 1-Chlorooctane	103	% 35-142	7						
Surrogate: 1-Chlorooctadecane	106	% 28-17.	1						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 6



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

Received: Reported: Project Name: Project Number: Project Location:	03/18/2016 03/24/2016 NVANU 70130707701 LEA COUNTY, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	03/15/2016 Soil Cool & Intact Jodi Henson	
---	--	--	--	--

Sample ID: S-4 1.0' (H600600-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2016	ND	2.01	100	2.00	1.37	
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0,895	
Total Xylenes*	<0,150	0.150	03/23/2016	ND	5.21	86.9	6.00	2.69	
Total BTEX	<0,300	0.300	03/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	03/21/2016	ND	416	104	400	8.00	
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	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	<10.0	10.0	03/22/2016	ND	182	91.2	200	8.62	
Surrogate: 1-Chlorooctane	94.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	97.1	% 28-171	1						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/18/2016	Sampling Date:	03/15/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	NVANU	Sampling Condition:	Cool & Intact
Project Number:	70130707701	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-4 1.5' (H600600-03)

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	03/23/2016	ND	2.01	100	2,00	1.37	
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	<0.150	0.150	03/23/2016	ND	5,21	86.9	6.00	2.69	
Total BTEX	<0.300	0.300	03/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	03/21/2016	ND	416	104	400	8.00	
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	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	<10.0	10.0	03/22/2016	ND	182	91.2	200	8.62	
Surrogate: 1-Chlorooctane	94.5	% 35-147	7						
Surrogate: I-Chlorooctadecane	95.1	% 28-171	1						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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 SM4500CI-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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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

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Relinquished By: Date: Received By: Relinquished By: The: Date: Received By: Relinquished By: The: Date: Received By: Relinquished By: The: Date: Received By: Delivered By: The: Date: Received By: Sample Condition Condition Condition Condition Sampler - UPS - Bus - Other: U.U.U. No No No + Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 H.U.U. H.U.U. H.U.U.U.	PLEASE NOTE: Labily and Damager. Continuits fability and clerify exclusive remedy for any claim taking whether based in copined or tort, shall be finited to the answert paid by the clerify tor any claim taking whether based in copined or tort, shall be finited to the answert paid by the clerify tor any claim taking whether based in copined or tort, shall be finited to the answert paid by the clerify and the probability and clerify exclusive remedy for any claim taking whether based in copined or tort, shall be finited to the answert paid by the clerify and the probability and the probability and clerify exclusive remedy the clerify th	Image: Containers Image: Containers Image: Containers	
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CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

Laboratories



April 21, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NVANU #1

Enclosed are the results of analyses for samples received by the laboratory on 04/15/16 11:15.

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/qa/lab accredited 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,

Celez 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:	04/15/2016	Sampling Date:	04/12/2016	
Reported:	04/21/2016	Sampling Type:	Soil	
Project Name:	NVANU #1	Sampling Condition:	Cool & Intact	
Project Number:	701307.077.01	Sample Received By:	Celey D. Keene	
Project Location:	LOVINGTON, NM			

Sample ID: B-1 5' (H600825-01)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AP						······································
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	04/18/2016	ND	416	104	400	3.92	

Sample ID: B-1 10' (H600825-02)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AP			·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	04/18/2016	ND	416	104	400	3.92	

Sample ID; B-1 15' (H600825-03)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/18/2016	ND	416	104	400	3,92	

Sample ID: B-1 20' (H600825-04)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/18/2016	ND	416	104	400	3,92	

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*=Accredited Analyte

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Celleg D. Kere

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

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		unc ⊔ Yes ⊔ No Addi Phone# 7 □ Yes □ No Addi Fax# 7									<u>de</u>								ANALYSIS REQUEST	•	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		

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Page 4 of 4



April 25, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NVANU #1

Enclosed are the results of analyses for samples received by the laboratory on 04/22/16 12:16.

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/qa/lab accredited 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,

Celaz 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: Reported: Project Name: Project Number: Project Location:	04/22/2016 04/25/2016 NVANU #1 701307.077.01 LOVINGTON, NM		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	04/12/2016 Soil ** (See Notes) Jodi Henson	
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Sample ID: B-1 25' (H600879-01)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/22/2016	ND	400	100	400	0.00	

Sample ID: B-1 30' (H600879-02)

Chloride, SM4500Cl-B Analyzed By: HM mg/kg Method Blank BS % Recovery True Value QC RPD Qualifier Reporting Limit Analyzed Analyte Result 400 0.00 04/22/2016 ND 400 100 16.0 Chloride <16.0

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
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- *** 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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Celey D. Keene, Lab Director/Quality Manager

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	CHECKED BY:	MARK . Mich.	Phone Result I Yes I No Addi Fhone # Fax Result, I Yes I No Addi Fax # REMARKS:	Next by Cardinal within 30 days a few show based by a splitting. If use, of the adverted by allow the substitution. He does nave of the abave a based associated and the splitting.					CID/BA DE /.CO THER :	SE:	PRESERVY SAMPLING		ў.	State: Zip:		Address:	- 1		P.O. #			CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Laboratories

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June 23, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NVANU #1

Enclosed are the results of analyses for samples received by the laboratory on 06/17/16 15:00.

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/qa/lab accredited certif.html.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received: Reported: Project Name: Project Number: Project Location:	06/17/2016 06/23/2016 NVANU #1 701307.077.01 LOVINGTON, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	06/15/2016 Soil ** (See Notes) Jodi Henson	
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Sample ID: S-5 0' (H601336-01)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	06/21/2016	ND	400	100	400	7.69	

Sample ID: S-5 1' (H601336-02)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	06/21/2016	ND	400	100	400	7.69	

Sample ID: S-5 2' REFUSAL (H601336-03)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/21/2016	ND	400	100	400	7.69	

Sample ID: S-6 0' (H601336-04)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AP						<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/21/2016	ND	400	100	400	7.69	

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*=Accredited Analyte

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Celez & 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:	06/17/2016	Sampling Date:	06/15/2016
Reported:	06/23/2016	Sampling Type:	Soil
Project Name:	NVANU #1	Sampling Condition:	** (See Notes)
Project Number:	701307.077.01	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: S-6 1' (H601336-05)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/21/2016	ND	400	100	400	7.69		

Sample ID: S-6 2' (H601336-06)

Chloride, SM4500CI-B	mg	mg/kg Analyzed By:							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/21/2016	ND	400	100	400	7.69	

Sample ID: S-6 3' (H601336-07)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/21/2016	ND	400	100	400	7.69	

Sample ID: S-6 4' (H601336-08)

Chloride, SM4500CI-B	de, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	06/21/2016	ND	400	100	400	7.69	

Sample ID: S-6 5' (H601336-09)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/21/2016	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/17/2016	Sampling Date:	06/15/2016
Reported:	06/23/2016	Sampling Type:	Soil
Project Name:	NVANU #1	Sampling Condition:	** (See Notes)
Project Number:	701307.077.01	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

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Sample ID: S-6 6' (H601336-10)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/21/2016	ND	400	100	400	7.69	

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Sample ID: S-6 7' (H601336-11)

Chloride, SM4500CI-B	/kg	g Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/21/2016	ND	400	100	400	7.69	

Sample ID: S-6 8' (H601336-12)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/21/2016	ND	400	100	400	7.69	

Sample ID: S-6 10' REFUSED (H601336-13)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-7 0' (H601336-14)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	06/21/2016	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: Project Name: Project Number: Project Location:	06/17/2016 06/23/2016 NVANU #1 701307.077.01 LOVINGTON, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	06/15/2016 Soil ** (See Notes) Jodi Henson	
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Sample ID: S-7 1' (H601336-15)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-7 2' REFUSAL (H601336-16)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-8 0' (H601336-17)

Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-8 1' (H601336-18)

Chloride, SM4500Cl-B mg		g/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-8 2' (H601336-19)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	06/21/2016	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Kerre

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: Project Name: Project Number: Project Location:	06/17/2016 06/23/2016 NVANU #1 701307.077.01 LOVINGTON, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	06/15/2016 Soil ** (See Notes) Jodi Henson	
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Sample ID: S-8 3' (H601336-20)

Chloride, SM4500Cl-B	mg/kg Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-8 4' (H601336-21)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-8 5' (H601336-22)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	06/21/2016	ND	416	104	400	3.92	2

Sample ID: S-8 6' (H601336-23)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	06/21/2016	ND '	416	104	400	3.92	

Sample ID: S-8 7' (H601336-24)

Chloride, SM4500Ci-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/21/2016	ND	416	104	400	3,92 '	

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*=Accredited Analyte

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Celleg Di 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:	06/17/2016	Sampling Date:	06/15/2016
Reported:	06/23/2016	Sampling Type:	Soil
Project Name:	NVANU #1	Sampling Condition:	** (See Notes)
Project Number:	701307.077.01	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: S-8 9' REFUSAL (H601336-25)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/21/2016	ND	416	104	400	3,92	

Sample ID: S-9 0' (H601336-26)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-9 1' (H601336-27)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	06/21/2016	ND	416	104	400	3,92	

Sample ID: S-9 2' (H601336-28)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	06/21/2016	ND	416	104	400	3.92	

Sample ID: S-9 2.5' REFUSAL (H601336-29)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	06/21/2016	ND	416	104	400	3,92	

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Celeg D. Kune

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 SM4500CI-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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Celeg D. Kene

Celey D. Keene, Lab Director/Quality Manager

			Page 1 of	5
16	<u> </u>	-	ANALYSIS REQUEST	
	company: Talon/LPE	 		
zip: 88210	Attn:			
746-8905	Address:			
Eine Rock	City:			
14	State: Zip;	, 		
1	Phone #:			
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CONTAINI BROUNDW VASTEWAT BOIL	ACID/BASE CE/COOL DTHER:			
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6	tor tert, shall be limited to the amount paid by the	p-clant for the		I
בי שווקר או איז	nd resched by Cardinal within 50 days after com less of use, or less of profile incurred by cifent, in the second profile incurred by cifent, income	tielon of the applicable is subsidiaries, or otherwise		
Received By:		1 Yes 1 Yes	Add'l Phone #: Add'l Fax #:	
2	obrena.	MARKS:	•.	
OKs paviazes	<u></u>		•	
Sample Condi Cool Intact	Q			
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se fax written changes to	(575) 393-2326			
	101 East Marland, Hobbs, NM 82240 (275) 303-2276 121 Tallon/LPE 121 Kind best Ky 121 Kind bes	101 East Marland, Hobbs, NW 88240 (675) 382-2326 FAX (575) 393-2476 Interest: $\frac{1}{12}$ $\frac{1}{$	ED BY:	ANALYSIS

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101 East Warland, Hobbs, NM 88240	, NIM 88240		Page 2. of 3	
(575) 393-2326 FAX (575) 393-2476 Company Name: Talon/LPE	•		ANALYSIS REQUEST	-
Kimberty With	ison	P.O. 步		
N. Texas Ave.		company: Talon/LPE		
esia	State: NM Zip: 88210	Attn:		
-746-8768 F	s: 575-746-8905	Address:		,
192419406144	Cowner:	City:		
me: NUANU#1	tory	State: Zip:		
Project Location: Lea Ctu		Phone		
\mathbf{x}		1		
	. MATRIX	PRESERV SAMPLING		•
Lab I.D. Sample I.D.	ab or (C)omp. DNTAINERS DUNDWATER Stewater L Idge	HER : D/BASE: /COOI. HER :	<u>Chlø</u>	
14601336	GI W SI	1/2/1 0 E >		
-11 5-6 7'		n//c//9/		
12 J-S 2'				
-13 S-6 10'R	C/US4/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1			
-14 S-7 0'				
-15 5-7 1				
-16 5=7 2. Re	erusal /			
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18-5-8 1.				
-14 2-8 2				•
	eve remedy for any claim sching whether based in contract	nr tort, chail be limited to the amount paid by the I needed by Caminal within SD days after compid	diant for the Mon of the appCathin	•
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Keinquished By: Date:	" DO (L'Metto (alorena. REM	ARKS:	
Time:		1		
Delivered By: (Circle One)	Sample Condition	ion CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:				
Cardinal cannot accept verbal changes. Please fax written changes to (675) 393-2326	es. Please fax written changes to	(575) 393-2326	•	

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Page 10 of 11

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ស៊ី 🛛	Delivered By: (Circle One) Campion Sampler - UPS - Bus - Other: 223°		Him Wilson 10:00 (V/WW	Relingyished By:	<u>PERSE NOTE: Labity and Constant, contrast, Golding of distant sections on solid y during the section in summer one, and a new source completion at the optimate analyses. At doints laboth for negatives and any doint occurs vectore shall be dealed valued under laboth so area, and are completion at the optimate analyses. In so control chall Charley birds of included a concerported damages, including without includes, including so area of persons of the based with a section at the optimate.</u>		-28 7.5 Refusal G	5-9 0'	9. Retusal		2-8-2	0 00 U.	G)RAB OR (C)OMP.	: Kin Wilson	Project Location: Leavy	me: NVANU #1 Battery	10.77.0.7706104	575-7	Address: 400 W. 1000 State: NM Zip: 88210	N Tavas Ava	Project Manager: Linch 21 by 11/1800		101 East Marland, Hobbs, NM 88240	Laboratories	NCARDINAL
inges to (575) 393-2326	Sample Condition CHECKEJ BT: Cool Infact Vess II Yes Kio I No		it adrese	Fax Result	In contrast, to use, as we wanted within 30 days after completion of the opplicatio beinverting and networks by Condition within 30 days after completion of the opplication (heurophans, has a firms, of the of profile insured by class to the availability, $\omega_{\rm ext}$) and $\omega_{\rm ext}$ and $\omega_{\rm ext}$ we much claim is there into any of the bactwo stated cascours of the theorem.	and the share share share the share of the amount read by the cleant for the	*						OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE ITME	MATRIX PRESERV. SAMPLING	4	State: Zip:	City:	Address:	Attn:	Company: Talon/LPE				CHAIN-OF-CUST	
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Page 11 of 11

Analytical Report 533505

for

Talon LPE

Project Manager: David Adkins

NVANU Battery

701307.077.01

21-JUL-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





21-JUL-16

Project Manager: **David Adkins Talon LPE** 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 533505 NVANU Battery Project Address:

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 533505. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 533505 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Huns hoah

Kelsey Brooks Project Manager Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Talon LPE, Artesia, NM

NVANU Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B-2 5'	S	07-12-16 13:00	- 5 ft	533505-001
B-3 15'	S	07-12-16 13:40	- 15 ft	533505-006
B-3 20'	S	07-12-16 13:45	- 20 ft	533505-007
B-3 30'	S	07-12-16 13:50	- 30 ft	533505-008
B-4 5'	S	07-12-16 14:15	- 5 ft	533505-010
B-5 5'	S	07-12-16 15:10	- 5 ft	533505-017
B-5 10'	S	07-12-16 15:15	- 10 ft	533505-018
B-5 15'	S	07-12-16 15:20	-15 ft	533505-019
B-5 20'	S	07-12-16 15:25	- 20 ft	533505-020
B-5 25'	S	07-12-16 15:30	- 25 ft	533505-021
B-2 10'	S	07-12-16 13:05	- 10 ft	Not Analyzed
B-2 20'	S	07-12-16 13:10	- 20 ft	Not Analyzed
B-2 30'	S	07-12-16 13:15	- 30 ft	Not Analyzed
B-2 40'	S	07-12-16 13:20	- 40 ft	Not Analyzed
B-3 40'	S	07-12-16 13:55	- 40 ft	Not Analyzed
B-4 10'	S	07-12-16 14:20	- 10 ft	Not Analyzed
B-4 20'	S	07-12-16 14:25	- 20 ft	Not Analyzed
B-4 30'	S	07-12-16 14:30	- 30 ft	Not Analyzed
B-4 40'	S	07-12-16 14:35	- 40 ft	Not Analyzed
B-4 50'	S	07-12-16 14:45	- 50 ft	Not Analyzed
B-4 60'	S	07-12-16 14:50	- 60 ft	Not Analyzed
B-5 30'	S	07-12-16 15:35	- 30 ft	Not Analyzed
B-5 35'	S	07-12-16 15:40	- 35 ft	Not Analyzed
B-5 40'	S	07-12-16 15:45	- 40 ft	Not Analyzed



CASE NARRATIVE

Client Name: Talon LPE Project Name: NVANU Battery

 Project ID:
 701307.077.01

 Work Order Number(s):
 533505

Report Date: 21-JUL-16 Date Received: 07/14/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



David Adkins

Project Location:

Project Id: Contact:

Certificate of Analysis Summary 533505 Talon LPE, Artesia, NM Project Name: NVANU Battery



Date Received in Lab: Thu Jul-14-16 10:15 am Report Date: 21-JUL-16 Project Manager: Kelsey Brooks

	Lab Id:	533505-001	533505-006	533505-007	533505-008	533505-010	533505-017
	Field Id:	B-2 5'	B-3 15'	B-3 20'	B-3 30'	B-4 5'	B-5 5'
Analysis Requested	Depth:	5 ft	15 A	20 ft	30 ft	5 ft	S ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-12-16 13:00	Jul-12-16 13:40	Jul-12-16 13:45	Jul-12-16 13:50	Jul-12-16 14:15	Jul-12-16 15:10
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-19-16 12:00	Jul-19-16 12:00	Jul-20-16 12:00	Jul-20-16 12:00	Jul-19-16 12:00	Jul-19-16 12:00
	Analvzed:	Jul-19-16 14:21	Jul-19-16 14:29	Jul-20-16 15:59	Jul-20-16 16:23	Jul-19-16 14:37	Jul-19-16 15:00
	I/mits/RL:	me/kg RL	mg/kg RL				
Chlorida			733 50.0	717 50.0	248 10.0	41.5 10.0	1880 100

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratorics. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Rund Moah Kelsey Brooks Project Manager

Final 1.001

Page 5 of 13

XENCO	701307.077.01
	Project Id:

David Adkins

Project Location:

Contact:

Certificate of Analysis Summary 533505 Talon LPE, Artesia, NM

Project Name: NVANU Battery



Date Received in Lab: Thu Jul-14-16 10:15 am Project Manager: Kelsey Brooks Report Date: 21-JUL-16

			-		
	Lab Id:	533505-018	533505-019	533505-020	170-000550
	Field Id:	B-5 10'	B-5 15'	B-5 20'	B-5 25'
Analysis Requested	Depth:	10 A	15 ft	20 ft	25 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-12-16 15:15	Jul-12-16 15:20	Jul-12-16 15:25	Jul-12-16 15:30
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-20-16 12:00	Jul-20-16 12:00	Jul-20-16 12:00	Jul-20-16 12:00
,	Analvzed:	Jul-20-16 16:30	Jul-20-16 16:38	Jul-21-16 15:55	Jul-21-16 16:03
	I'mits/RL:	mg/kg RL	mg/kg RL	mg/kg RL	gm
Chlorida		1350 50.0	859 50.0	314 10.0	210 10.0

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Kunz Woah Kelsey Brooks Project Manager

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Page 6 of 13



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
----------------------------	-----------------------------------	------------------------

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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1211 W Florida Ave, Midland, TX 79701
2525 W. Huntington Dr Suite 102, Tempe AZ 85282

 Phone
 Fax

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 (281) 240-4280

 (214) 902 0300
 (214) 351-9139

 (210) 509-3334
 (210) 509-3335

 (432) 563-1800
 (432) 563-1713

 (602) 437-0330
 (432) 563-1713

Final 1.001

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ABORATORIES
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BS / BSD Recoveries



Project Name: NVANU Battery

			Flag						Flag	
.01		λ	Control Limits %RPD		20			Y	Control Limits %RPD	
Project ID: 701307.077.01 ate Analyzed: 07/19/2016	olid	RY STUI	Control Limits %R		90-110	7/20/2016	olid	ERY STUI	Control Limits %R	
Project ID: 701307.07 Date Analyzed: 07/19/2016	Matrix: Solid	RECOVE	RPD %		7	Date Analyzed: 07/20/2016	Matrix: Solid	RECOVI	RPD %	
Proj Date Ai		ICATE	Blk. Spk Dup. %R	[5]	108	Date A		ICATE	Blk. Spk Dup. %R	છિ
		PIKE DUPI	Blank Spîke Dunlicate	Result [F]	270			PIKE DUPI	Blank Spike Dunlicate	Result [F]
		ILANK S	Spike Added	[E]	250			STANK S	Spike Added	[E]
9		SPIKE / E	Blank Spike %R	ē	110	16		SPIKE / I	Blank Spike %R	ā
Date Prepared: 07/19/2016	Batch #: 1	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	Blank Spike Recult	[C]	275	Date Prepared: 07/20/2016	Batch #: 1	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	Blank Spike Result	[C]
ate Prepar	Batcl	BLAN	Spike Added	[B]	250	ate Prepar	Batcl	BLAN	Spike Added	[B]
Ď	ßKS		Blank Sample Result	<u>द</u>	<10.0	Ď	3KS		Blank Sample Result	<u></u>
33505	22 Sample: 711120-1-BKS	60	Inorganic Anions by EPA 300/300.1				64 Sample: 711178-1-BKS	ЪĴ	Inorganic Anions by EPA 300/300.1	
Work Order #: 533505 Analyst: MNR	Lab Batch ID: 998322	Units: mg/kg	Inorganic A	Analytes	Chloride	Analyst: MNR	Lab Batch ID: 998464	Units: mg/kg	Inorganic A	Analytes

20

90-110

4

107

268

250

103

257

250

<10.0

Analytes

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Biank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes

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Final 1.001

	For	m 3 -	Form 3 - MS / MSD Recoveries	SD R	ecove	eries					
LABORATORIES	Project N	Vame:]	Project Name: NVANU Battery	attery							
Work Order # : 533505						Project ID:	: 701307.077.01	.077.01			
T.ab Batch ID: 998322	QC-Sample ID:	: 533505-010 S	-010 S	Bai	Batch #:	1 Matrix:	: Soil				
	Nota Drangrad.	07/19/2016	016	An	Analvst: M	MNR					
Date Analyzed: 0//19/2010	nare Treharen		040								
Reporting Units: mg/kg		Z	ATRIX SPIK	E / MAT	ALX SPLE	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECUVER'S STUDY		JVEKX 2	AUDY		
Inorganic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike Added	Duplicate Spiked Sample Pecult (F)	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	Added [B]	5	(Q)	[E]	[x] 10000	<u></u>				
Chloride	41.5	250	283	67	250	280	95	1	80-120	20	
Lab Batch ID: 998464	QC- Sample ID:	: 533505-007 S	-007 S	Ba	Batch #:	1 Matrix:	:: Soil				
Date Analyzed: 07/20/2016	Date Prepared:	: 07/20/2016	016	An	Analyst: N	MNR					
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Chloride	5070	12500	17300	86	12500	17500	66		80-120	50	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, <math>B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, <math>NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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LABORATORIES Page 3 of 3 uting the Standard since rigio Odessa, Texas (432-563-1800) uting the Standard since rigio Odessa, Texas (432-563-1800) Ilas Texas (214-902-0300) Norcross, Georgia (770-449-880) rvice Center - San Antonio, Texas (210-509-3334) VMW.xenco.com Client / Reporting Information Project Information unv Kane / Banetic Project Nama/Number L/E-Artesia MIANU Battery 701307.077.01 / Texas Avie. Artesia, NM 88210 Project Location:			es	ana ang jagawa na sa na	a en a cara a cara a cara a como como como como como como como c	and a second		Ica To:	Invo		211:
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BIRATORIES Page 3 of 3 ard since 1990 Odessa, Texas (432-563-1800) L-240-4200) Odessa, Texas (432-563-1800) L-240-4200) Norcross, Georgia (770-449-8800) ard since 1990 Norcross, Georgia (770-449-8800) L-240-4200) Norcross, Georgia (770-449-8800) arm Antonio, Texas (210-509-3334) www.xenco.com Project Information Analytical information	S=Soll						01307.077.01	ANU Battery 70	NV		ion/LPE-Artesia mpany Address:
BIDRATORIES Page 3 of 3 ard since 1990 Odessa, Texas (432-563-1800) L-240-4200) Odessa, Texas (432-563-1800) L-240-4200) Norcross, Georgia (770-449-8800) San Antonio, Texas (210-509-3334) www.xenco.com						011	L Loloct Intollingt	ect Name/Numbe	Pro		mpany Name / Branch:
Page 3 of 3 Norcross, Georgia (770-449-8800) Norcross, Georgia (770-449-8800) Norcro Quole # Xeneo Job #	Matri:	vtical Information	Analy	2333			inject informati			งัก	Client / Reporting Informatic
Page <u>3</u> or <u>3</u> Odessa, Texas (432-563-1800) Norcross, Georgia (770-449-8800)	53350	or opuar	-			<u>venco.com</u>					
Page <u>3</u> of <u>3</u> 1990 Odessa, Texas (432-563-1800)		1 (770-449-8800)	ross, Georgia	Norc						exas (210-509-3334)	Service Center - San Antonio, T
Page $\frac{3}{2}$ or $\frac{3}{2}$	Lakeland, Florida (863-648-85)	(2-563-1800)	ssa, Texas (43								Dallas Texas (214-902-0300)
			7								Stafford, Texas (281-240-4200)
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Page 12 of 13



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE	Acceptable Temperature	Range: 0 - 6 degC
Date/ Time Received: 07/14/2016 10:15:00 AM	Air and Metal samples Ac	ceptable Range: Ambient
Work Order #: 533505	Temperature Measuring o	levice used:R8
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	5.2	
#2 *Shipping container in good condition?	N/A	
#3 *Samples received on ice?	Yes	
#4 *Custody Seal present on shipping container/ cooler?	N/A	
#5 *Custody Seals intact on shipping container/ cooler?	N/A	
#6 Custody Seals intact on sample bottles?	N/A	
#7 *Custody Seals Signed and dated?	N/A	
#8 *Chain of Custody present?	Yes	
#9 Sample instructions complete on Chain of Custody?	Yes	
#10 Any missing/extra samples?	No	
#11 Chain of Custody signed when relinquished/ received?	Yes	
#12 Chain of Custody agrees with sample label(s)?	Yes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with Chain of Custody?	Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated test(s)?	Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	Yes	Subcontract Houston
#21 VOC samples have zero headspace (less than 1/4 inch	bubble)? N/A	
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? I samples for the analysis of HEM or HEM-SGT which are verif analysts.		
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnA	c+NaOH? N/A	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 07/18/2016

Checklist completed by: Mary Alexis Negron Mary Negron Checklist reviewed by: Mary Norah Kelsey Brooks

Date: 07/18/2016

Analytical Report 533504

for

Talon LPE

Project Manager: David Adkins

NVANU Battery

701307.077.01

20-JUL-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





20-JUL-16 Project Manager: **David Adkins Talon LPE** 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 533504 NVANU Battery Project Address:

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 533504. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 533504 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mins froah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Cross Reference 533504



Talon LPE, Artesia, NM

NVANU Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B-6 0'	S	07-12-16 09:30	- 0 ft	533504-001
B-6 5'	S	07-12-16 09:40	- 5 ft	533504-002
B-7 0'	S	07-12-16 10:00	- 0 ft	533504-003
B-7 5'	S	07-12-16 10:10	- 5 ft	533504-004
B-8 0'	S	07-12-16 10:30	- 0 ft	533504-005
B-8 5'	S	07-12-16 10:40	- 5 ft	533504-006
B-9 0'	S	07-12-16 10:56	- 0 ft	533504-007
B-9 5'	S	07-12-16 11:06	- 5 ft	533504-008
B-10 0'	S	07-12-16 11:05	- 0 ft	533504-009
B-10 5'	S	07-12-16 11:20	- 5 ft	533504-010
B-11 0'	S	07-12-16 12:30	- 0 ft	533504-011
B-11 5'	S	07-12-16 12:40	- 5 ft	533504-012



CASE NARRATIVE



Client Name: Talon LPE Project Name: NVANU Battery

 Project ID:
 701307.077.01

 Work Order Number(s):
 533504

 Report Date:
 20-JUL-16

 Date Received:
 07/14/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



David Adkins

Project Location:

Contact:

Certificate of Analysis Summary 533504 Talon LPE, Artesia, NM Project Name: NVANU Battery



Date Received in Lab: Thu Jul-14-16 10:15 am Report Date: 20-JUL-16 Project Manager: Kelsey Brooks

	Lab Id:	533504-001	533504-002	533504-003	533504-004	533504-005	533504-006
, , ,	Field Id:	B-6 0'	B-6 5'	B-7 0'	B-7 5'	B-8 0'	B-8 5'
Analysis kequested	Depth:	0 ft	5 ft	Û Ĥ	5 ft	0 ft	5 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-12-16 09:30	Jul-12-16 09:40	Jul-12-16 10:00	Jul-12-16 10:10	Jul-12-16 10:30	Jul-12-16 10:40
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-19-16 12:00					
SUB: E871002	Analyzed:	Jul-19-16 15:31	Jul-19-16 15:39	Jul-19-16 15:47	Jul-19-16 15:54	Jul-19-16 16:02	Jul-19-16 16:10
	Units/RL:	mg/kg RL					
Chloride		41.6 10.0	21.0 10.0	ND 10.0	15.6 10.0	ND 10.0	ND 10.0

This analytical report, and the entite data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoised for this work order unless otherwise agreed to in writing.

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Murs Moah Kelsey Brooks Project Manager

Page 5 of 12

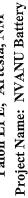


David Adkins

Project Location:

Contact:

Certificate of Analysis Summary 533504 Talon LPE, Artesia, NM



 Date Received in Lab:
 Thu Jul-14-16 10:15 am

 Report Date:
 20-JUL-16

 Project Manager:
 Kelsey Brooks

	Lab Id:	533504-007	533504-008	533504-009	533504-010	533504-011	533504-012
	Field Id:	B-9 0'	B-9 5'	B-10 0'	B-10 5'	B-11 0'	B-11 5'
Analysis Requested	Depth:	0 Ĥ	5 ft	0 ft	5 ft	0 Ĥ	5 Ĥ
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-12-16 10:56	Jul-12-16 11:06	Jul-12-16 11:05	Jul-12-16 11:20	Jul-12-16 12:30	Jul-12-16 12:40
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-19-16 12:00	Jul-19-16 12:00	Jul-19-16 17:00	Jul-19-16 17:00	Jul-19-16 17:00	Jul-19-16 17:00
SUB: E871002	Analvzed:	Jul-19-16 16:18	Jul-19-16 16:26	Jul-19-16 18:36	Jul-19-16 18:59	Jul-19-16 19:07	Jul-19-16 19:15
	Units/RL:	mg/kg RL					
Chloride		ND 10.0	ND 10.0	ND 10.0	77.8 10.0	ND 10.0	ND 10.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratorics. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Murs Woah

Kelsey Brooks Project Manager

Final 1.000



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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LOQ Limit of Quantitation

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5332 Blackberry Drive, San Antonio TX 78238
1211 W Florida Ave, Midland, TX 79701
2525 W. Huntington Dr Suite 102, Tempe AZ 85282

 Phone
 Fax

 (281) 240-4200
 (281) 240-4280

 (214) 902 0300
 (214) 351-9139

 (210) 509-3334
 (210) 509-3335

 (432) 563-1800
 (432) 563-1713

 (602) 437-0330
 (432) 563-1713

XENCO Aboratories

BS / BSD Recoveries



Project Name: NVANU Battery

Relative Percent Difference RPD = 200*((C-F)/(C+F)) Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes

Final 1.000

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XENCO Aboratories
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Form 3 - MS / MSD Recoveries





Work Order # :	533504						Project ID: 701307.077.01	: 701307	.077.01
Lab Batch ID:	998322	QC- Sample ID: 533505-010 S	533505-	010 S	Bat	Batch #:	1 Matrix: Soil	c: Soil	
Date Analyzed:	07/19/2016	Date Prepared: 07/19/2016	: 07/19/20)16	An	Analyst: MNR	INR		
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY S	TE RECO	VERY S
Inorga	Inorganic Anions by EPA 300/300.1	Parent Sample		Spiked Sample Spiked Result Sample		Spike	Duplicate Spike Spiked Sample	Spiked Dup.	RPD
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]		%
Chloride		41.5	250	283	26	250	280	95	1
Lab Batch ID:	998344	QC- Sample ID: 533504-009 S	: 533504-	S 600	Ba	tch #:	Batch #: 1 Matrix: Soil	c: Soil	
Date Analyzed:	07/19/2016	Date Prepared: 07/19/2016	: 07/19/20	016	Ψu	Analyst: MNR	ANR		
Donorting Tinite.	ma/ka		N	ATRIX SPIK	E/MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY (TE REC	DVERY

Flag

Control Limits %RPD

Control Limits %R

STUDY

20

80-120

Reporting Units: mg/kg		M	ATRIX SPIKE	E / MATH	AIAS XIV	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	re reco	VERY S	TUDY		
Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike	Spiked Sample Sp Result San ICI %	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]		Σ	ē	E		1				
Chloride	<10.0	250	263	105	250	253	101	4	80-120	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 9 of 12

Final 1.000

Stafford, Texas (281-240-4200)	Setting the Standard since 1990	LABORATORIES
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Construction Construction<
Odesa, Twas (Ab, Ba, Stor) Lakend, Finda (B1, Sed, Stor) Lakend, Finda (B1, Sed, Stor) Internet. Free termania Internet. Secondaria
Odessa, Tosas (403-383-4800) Lakelard, Fiorda (83-342-380) Nerress, Georgia (774-44-380) Tampa, Fiorda (83-302-300) Tampa, Fiorda (83-302-300) Tampa, Fiorda (83-302-300) Nerress, Georgia (774-44-380) Tampa, Fiorda (83-30-200) Nerress, Georgia (774-44) Anhifted Information Nerress, Georgia (774-44) Nerress, Georgia (774-44) Nerresssander, Nerress, Georgia (774-44) <
ssa, Toxas (122-583-1800) Invest Corrected Lemps, Florida (1813-520-2000) Tampa, Florida (1813-520-2000) Tampa, Florida (1813-520-2000) Tampa, Florida (1813-520-2000) S 3 3 5 4 4 5 3 3 5 4 4 5 5 3 3 5 4 4 5 5 3 3 5 4 4 5 5 3 3 5 4 4 5 5 5 3 3 5 4 4 5 5 5 3 3 5 4 5 5 5 3 3 5 4 5 5 5 5
Lakeland, Florida (863-646-8526) Tampa, Florida (863-646-8526) S = Soll/Sed/Solld S = Soll/Sed/Solld DW = Drinking Water DW = Drinking Water DW = Drinking Water DW = Drinking Water DW = Drinking Water W = Wipe O = Oll W = Wipe W = Wipe

Page 10 of 12

subcontractors and assigns XENCO's standard terms and conditions of service unless previously neglotated under a fully executed client contract.	5 Gustody Seal # Preserved where applicable On fice. YF:0 S 1000cr: Signature of this document and relinquishment of samples constitutes a valid purchase order from client composition variable 5 Custody Seal # Preserved where applicable On fice. YF:0 S 1000cr: Signature of this document and relinquishment of samples constitutes a valid purchase order from client composition variable 5 S S	A Received By: C Relinquished By: Date Time: Received By: 3	Line 1/1/4/16 107. 5 Received By:	ambler SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DEI	TAT Starts Day received by Lab, if received by 3:00 nm	Level 3 (CLP Forms)	I Next. Day EMERGENCY I Day TAT I Level III Std QC+ Forms TRRP Level IV	S Day TAT Level II Std QC Level IV (Full Data Pkg /raw data)	a thine (Dualitiess days)					0 7/12/2016 [2:30 s 1	No. Field ID / Point of Collection	International Participation Pa	PO Number:	Taion/LPE	Phone No: Involce To:	re. Artesia, NM 88210	Company Address: NVANU Battery 701307.077.01	Cilent / Reporting Information	EES 4 dor outpy	nfo, Texas (210-509-3334)	Odessa, Texas (432-563-1800)	$\operatorname{Page} 2$ of 2	
e unless previously neglotiated under a fully executed client contract.	onice JF:0 Sr 2 Jorrected Temp: S- Z		:elved By:	Tracking #											WV=WASTE WATE	0 = 0	OW =Ocean/Sea Water W = Wipe	SW = Strace water SL = Sludge	P = Product	GW = Ground Water DW = Drinking Water		n Matrix Codes	HOG 665 4000	0) Tampa, Fiorida (813-620-2000)	Lakeland, Florida (863-646-8526)		

Page 11 of 12



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE Date/ Time Received: 07/14/2016 10:15:00 AM	Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used:R8									
Work Order #: 533504	Tomporatore measured.									
Sample Recei	pt Checklist	Comments								
#1 *Temperature of cooler(s)?	5.2									
#2 *Shipping container in good condition?	N/A									
#3 *Samples received on ice?	Yes									
#4 *Custody Seal present on shipping container/ cooler?	N/A									
#5 *Custody Seals intact on shipping container/ cooler?	N/A									
#6 Custody Seals intact on sample bottles?	N/A									
#7 *Custody Seals Signed and dated?	N/A									
#8 *Chain of Custody present?	Yes									
#9 Sample instructions complete on Chain of Custody?	Yes									
#10 Any missing/extra samples?	No									
#11 Chain of Custody signed when relinquished/ received?	Yes									
#12 Chain of Custody agrees with sample label(s)?	Yes									
#13 Container label(s) legible and intact?	Yes									
#14 Sample matrix/ properties agree with Chain of Custody?	Yes									
#15 Samples in proper container/ bottle?	Yes									
#16 Samples properly preserved?	Yes									
#17 Sample container(s) intact?	Yes									
#18 Sufficient sample amount for indicated test(s)?	Yes									
#19 All samples received within hold time?	Yes									
#20 Subcontract of sample(s)?	Yes	Subcontract Houston								
#21 VOC samples have zero headspace (less than 1/4 inch	bubble)? Yes									
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? samples for the analysis of HEM or HEM-SGT which are veri	Except for N/A									
analysts. #23 >10 for all samples preserved with NaAsO2+NaOH, Zn.	Ac+NaOH? N/A									

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Mary Alexis Negron
 Date: 07/18/2016

 Mary Negron
 Date: 07/18/2016

 Checklist reviewed by:
 Mary Moah
 Date: 07/18/2016

 Kelsey Brooks
 Date: 07/18/2016