APPROVED By Olivia Yu at 3:27 pm, Nov 30, 2017

NMOCD will consider delineation complete for 1RP-4880. See email documentation for proposed remediation conditions.





Work Plan, Revegetation and Noxious Weed Management Plan:

North Vacuum Abo North Unit (NVANU) #73 API # 30-025-32721

Prepared For:

Lime Rock Resources II-A, L.P.

Prepared By:

Kimberly M. Wilson TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

September 13, 2017

Ms. Olivia Yu 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) #73 API # 30-025-32721

Dear Ms. Yu,

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 #73 Battery is located approximately fifteen (15) miles west of Lovington, New Mexico. The legal location for this release is Unit Letter G, Section 1, Township 17 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.8661079 North and -103.512001 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 600 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 #73 to discuss the concerns of the State Land Office as to why there were areas void of vegetation.

On August 16, 2017, 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.

An air rotary drill rig was utilized to obtain vertical delineation within the barren area. Boreholes were advanced inside of the barren areas at sample locations B-1 through B-4. Horizontal delineation samples were also taken on the periphery of the barren areas at sample locations S-1 through S-9. The results of the sampling events at this location are summarized in the data tables below. A site plan is presented in Appendix 1 which illustrates the work area and references the sample locations.

Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO C6-C10	TPH (mg/kg) DRO >C10-C28	TPH (mg/kg) EXT DRO >C28-C36
B-1	0'	< 0.300	1880	<10	<10	<10
	1'	< 0.300	3360	<10	<10	<10
	2'	< 0.300	2240	<10	<10	<10
	3'		1330			
	4'	100	368		÷	
	5'		1070	teet to the		
	10'	-	1150			
	15'	24	240			
	20'	-	256			
B-2	0'	<0.300	1280	<10	<10	<10
	1'	< 0.300	6400	<10	<10	<10
	2'	< 0.300	3720	<10	<10	<10
	3'		3280	<u></u>		
	4'		3280			
	5'	10 (#P	2680		-	
	10'		2760		-	
	15'		1260			
	20'		224			

August 25, 2017

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO C6-C10	TPH (mg/kg) DRO >C10-C28	TPH (mg/kg) EXT DRO >C28-C36
B-3	0'	< 0.300	2320	<10	<10	<10
	1'	< 0.300	1390	<10	<10	<10
	2'	< 0.300	3520	<10	<10	<10
	3'		1880			
	4'		1300			
	5'		3040			
	10'		2880		144	144
	15'		2200			
	20'		1200			
	25'		800			
	30'		336			
	35'		16			
B-4	0'	< 0.300	80	<10	<10	<10
	1'	< 0.300	1150	<10	<10	<10
	2'	< 0.300	704	<10	<10	<10
	3'		560			
	4'	122/	400	44	42	42
	5'		400			
	10'		1520			
	15'		528		22	
	20'		176			

		BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO C6-C10	TPH (mg/kg) DRO >C10-C28	TPH (mg/kg) EXT DRO >C28-C36	
S-1	0'	<0.300	<16	<10	<10	<10	
S-2	0'	< 0.300	<16	<10	<10	<10	
	0.5'	<0.300	<16	<10	<10	<10	
S-3	0'	<0.300	<16	<10	<10	<10	
S-4	0'	<0.300	<16	<10	<10	<10	
S-5	0'	<0.300	<16	<10	<10	<10	
S-6	0'	<0.300	16	<10	<10	<10	
S-7	0'	<0.300	<16	<10	<10	<10	
S-8	0'	<0.300	<16	<10	<10	<10	
S-9	0'	< 0.300	<16	<10	<10	<10	

Proposed Remedial actions

- The barren area in the vicinity of borehole B-1 will be excavated to a depth of 3feet deep and the area around borehole B-4 will be excavated to a depth of 2-feet deep.
- The barren soil around borehole B-2 and B-3 will be excavated to a depth of 4feet and a 20 mil liner will be installed within the excavated areas.
- Please note that the barren area is vertically and horizontally delineated. Field titration screening for chlorides will be used to guide the excavation activities and determine excavation boundaries.
- All of the excavated material will be hauled to Lea Land LLC, a NMOCD approved disposal facility.
- The backfilled area will be contoured to match the surrounding terrain and left in a "rough" condition to approximate natural surface deviations, control erosion, and promote revegetation.
- An erosion control berm will be constructed up-gradient of the backfilled area to prevent storm water washout.
- Immediately following preparation of the site, a Culti-Pack Seed Drill will be utilized to plant 50/50 mix of BLM #3 & #4 seed mixture for shallow/rocky environments following manufacture recommended application rates. The site will be monitored by Lime Rock personnel to insure proper revegetation is achieved. Should revegetation not take place then further amendments will be applied.
- The NMSLO policy states the goal is to obtain native plant cover and diversity levels that are equal to or exceeding natural potential levels. The root zone at this location was determined to be 8-inches deep.
- 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

m. Wilson Imberl

Kimberly M. Wilson Project Manager

David J. Adkins District Manager

Attachments:

Appendix ISite PlanAppendix IIGroundwater DataAppendix IIILaboratory Results

APPENDIX I

SITE MAP



APPENDIX II

GROUNDWATER DATA



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	d,	(quartei (quartei					3=SW 4=SE gest) (N	.) AD83 UTM in me	ters)	(1	n feet)	
	POD												1
POD Number	Sub- Code basin	Coun	Q Q ty 64 16			Tws	Rng	Х	γ	Distance		Depth Water	Water Column
L 03241	L	LE	-			17S		636425	3636145* 🌑	584	122	92	30
L 06134	L	LE	2	4	03	17S	34E	636411	3636949*	710	175	95	80
L_03011	L	LE			02	17S	34E	637425	3637158* 🌑	865	121	80	41
									Avera	ge Depth to	Water:	89	feet
										Minimum	Depth:	80	feet
										Maximum	Depth:	95	feet
يەسى يېرە يەسە ئەرە بەرە بەرە بەرە بەرە بەرە بەرە بەر	a ward ward door ware door and ware such		منه منه من مرز	- 14			and some first start						

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 636921

Northing (Y): 3636454

Radius: 1000

*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

LABORATORY RESULTS



August 25, 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 08/18/17 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-1 0' (H702214-01)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	< 0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6,00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 72-148	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	08/22/2017	ND	448	112	400	0.00	
ТРН 8015М	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	08/22/2017	ND	177	88.5	200	2.45	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	176	87.8	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	85.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.4	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed wated unless made in writing and received by Cardinal within thirty (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 profits incidental or subsidiaries, affiliates or subsidiaries of under approxal of Cardinal to the services hereunder by Cardinal, regardless of whether such damins based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-1 1' (H702214-02)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1,45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2,07	104	2.00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6,00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 5	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: AC				1.5MM 1977	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	08/22/2017	ND	448	112	400	0.00	
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	08/22/2017	ND	177	88.5	200	2.45	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	176	87.8	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	71.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.9	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such datin is based upon any of the above stated reasons on otherwise, Results relate only to the samples identified above. This report shall note reproduced except in full with written approval of Cardinal laboratories.

Celley D. Freene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-1 2' (H702214-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS				Mar 1174 (b)	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2,00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2,00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 72-148	· ·						· · ·
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Biank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	08/22/2017	ND	448	112	400	0.00	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	71.1	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	75.4	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed walved unless made in writing and received by Clarchinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall of cardinal based for cardinal based responsible.

Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-1 3' (H702214-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	08/22/2017	ND	448	112	400	0.00	

Sample ID: B-1 4' (H702214-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/22/2017	ND	448	112	400	0.00	

Sample ID: B-1 5' (H702214-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	08/22/2017	ND	448	112	400	0.00	

Sample ID: B-1 10' (H702214-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	08/22/2017	ND	448	112	400	0.00	

Sample ID: B-1 15' (H702214-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/22/2017	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any claim aitsing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whetspeere shall be deemed waived unless made in writing and received by Cardinal within thirty (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 dient, its subidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, negardless of whether such daims based upon any of the daives stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced cocept in full with written approval of Cardinal Laboratines.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-1 20' (H702214-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/22/2017	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponded damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This prost shall notes reportable decept in full with written approval of Cardinal Laboratories.

Celeg Di Kene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-2 0' (H702214-10)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	08/22/2017	ND	432	108	400	3.64	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	85.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.5	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Candinal'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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by clarith thirty (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 clarit, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Lobaratives.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-2 1' (H702214-11)

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	08/23/2017	ND	2.20	110	2.00	2,22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2,00	1,45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2,00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					1.1101-1.00
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	6400	16.0	08/22/2017	ND	432	108	400	3.64	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	83.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.9	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg D. Keena-

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-2 2' (H702214-12)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0,950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	08/22/2017	ND	432	108	400	3.64	
ТРН 8015М	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	81.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.6	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 client for analyses. All claims, including those for negligence and any other cause whitspever shall be deemed walved unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based by books tabed reasons or otherwise. Results relate only to the samples identified above. This report shall other reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-2 3' (H702214-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	08/22/2017	ND	432	108	400	3.64	

Sample ID: B-2 4' (H702214-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	08/22/2017	ND	432	108	400	3.64	

Sample ID: B-2 5' (H702214-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/22/2017	ND	432	108	400	3.64	

Sample ID: B-2 10' (H702214-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	08/23/2017	ND	432	108	400	3.64	

Sample ID: B-2 15' (H702214-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16,0	08/23/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 client for analyses. All claims, including these for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the simples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kerra

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-2 20' (H702214-18)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/23/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 is subidiaries, shiftlates or successors arising out of or related to the performance of the services hereunder by Cardinal, negartless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboraties.

Celeg Ditrene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-3 0' (H702214-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2,00	1.45	
Ethylbenzene*	<0,050	0.050	08/23/2017	ND	2.07	104	2,00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0,950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	08/23/2017	ND	432	108	400	3.64	
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	08/22/2017	ND	178	89.1	200	0,422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	77.7	% 28.3-16	64						
Surrogate: 1-Chlorooctadecane	76.4	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the services 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 the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine-

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-3 1' (H702214-20)

BTEX 8021B	mg/	/kg	Analyze	d By: MS	0				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2,00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6,18	103	6.00	0,950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	08/23/2017	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	99.0	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	99.3	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or correquential damages, including, without limitation, business interruptors, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-3 2' (H702214-21)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2,00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	08/23/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	72.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	75.5	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the services hereunder by cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the services hereunder by cardinal, regardless of whether such including, without limitation, business interruptions, loss of use, or loss of profits incurred by dient, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez Di Freene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-3 3' (H702214-22)

Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	08/23/2017	ND	432	108	400	3.64	

Sample ID: B-3 4' (H702214-23)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	08/23/2017	ND	432	108	400	3.64	

Sample ID: B-3 5' (H702214-24)

Chloride, SM4500Cl-B	1500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	08/23/2017	ND	432	108	400	3,64	

Sample ID: B-3 10' (H702214-25)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	08/23/2017	ND	432	108	400	3.64	

Sample ID: B-3 15' (H702214-26)

Chloride, SM4500Cl-B mg/kg		Analyzed	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/23/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and ctient's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All dalins, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or correspondential damages, including, without limitation, business interruptions, loss of profits incidential or busidearies, affiliates or successors arising out of or related to the enformance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal laboratories.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-3 20' (H702214-27)

Chloride, SM4500Cl-B	mg	/kg	g Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/23/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whetspeeter shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or othenvise. Results relate only to the samples identified above. This report shall not except shall writh written approval of Cardinal Loboratories.

Celeg Diffeene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-4 0' (H702214-28)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0.150	0,150	08/23/2017	ND	6.18	103	6.00	0,950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 72-148	}						
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	08/23/2017	ND	432	108	400	3.64	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	85. <i>1</i>	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.0	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whateovers shall be deemed walved unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-4 1' (H702214-29)

BTEX 8021B	mg/	'kg	Analyze	d By: MS			AMAN		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1,45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1,10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	08/23/2017	ND	432	108	400	3.64	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	85.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.9	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Carcinal'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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the 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 the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-4 2' (H702214-30)

BTEX 8021B	mg/	/kg	Analyze	d By: MS	www.counter.com				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.20	110	2.00	2,22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2,00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 72-148	•						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	94.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.5	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez Ditrene-

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-4 3' (H702214-31)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/23/2017	ND	416	104	400	7.41	

Sample ID: B-4 4' (H702214-32)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/23/2017	ND	416	104	400	7.41	

Sample ID: B-4 5' (H702214-33)

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	08/23/2017	ND	416	104	400	7.41	

Sample ID: B-4 10' (H702214-34)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	08/23/2017	ND	416	104	400	7.41	

Sample ID: B-4 15' (H702214-35)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/23/2017	ND	416	104	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed walved unless made in writing and received by Clarinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Rescults relate only to the sample identified above. This report shall on being decemption in full with written approval of Cardinal Laboraties.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-4 20' (H702214-36)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/23/2017	ND	416	104	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 client for analyses. All claims, including these for negligence and any other cause whatseever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the limited to the arrow of the services 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 the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez theme-

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 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

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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corsequential 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 the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples lidentified above. This report shall not be reproduced eccept in full with written approval of Circlinal Laboratories.

Celez Di Keine-

Celey D. Keene, Lab Director/Quality Manager

Imper: 0 f Imper: 0 f Imper: 0 f Immer: 0 f Date: Dete: Date: Received By: Correle Ome) 0.42 Sample Condition CHECKED BY: Dete: Correl Ome) Other: 0.42 Date: Correle Condition Check of the optimizer Check of the optimizer	BY:	3 R-1 3 R-1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	C C C C C C C C C C C C C C	-8905 Address: -8905 Address: MATRIX Phone #: MATRIX PRESERV SAMPLING	88240 2476 ANALYSIS	CARDINAL Laboratories <u>chain-of-custody and Analysis request</u>
					REQUEST	ALYSIS REQUEST

† Cardinal cannot accept verbal changes, Please fax written changes to (575) 393

Page 23 of 26

Sampler - UPS - Bus - Other: 0,92 Discondition Vision Officials) Sampler - UPS - Bus - Other: 0,92 Discondition Vision Officials Vision (Initials) Sampler - UPS - Bus - Other: 0,92 Discondition (1/52) Tres Tres Vision Officials) Sampler - UPS - Bus - Other: 0,92 Discondition Officials (1/52) 193-2326	Phone Result: 11 Yes 11 Fax Result: 11 Yes 11 REMARKS: P- 2.6	and Demages: Canadan's signify and cleants exclusive terms for any older which which is traced in contrast or sort shall be indeed to the second point for the and Demages: Canadan's signify and cleants exclusive terms for any older which is the state of the contrast or sort shall be indeed to the second to the splice bit is the and Demages: Canadan's signify and cleants exclusive terms for a cleant of the shall be indeed to the state of the splice bit is the any domages: Canadan's signify and cleants exclusive to clean the which a most reached by Canadan's shall be indeed to the splice bit is the any domages: Canadan's signify and cleants exclusive and and the shall be indeed to the shall be the shall be and the shall be the shall be and the shall be the s	WW		B-2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3-2 01 611 4 9/16/17	GIRAB OR (C)OM CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER :	J-ADLINS MATRIX PRESERV SAMPLING	$\frac{\operatorname{ame:}}{\operatorname{NU} \operatorname{A} \operatorname{Nu}^{\#} 73}$	1746-8768 Fax #: 575-746-8905 Address:	O Attn:	v: Talon/LPI	101 East Marland, Nobbs, NM 88240 (578) 393-2326 FAX (575) 393-2476	CARUINAL CHAN-OF-CUSTODY
	H No Adei Frouter	1 1					1 Cu		i i				ANALYSIS REQUEST	JSTODY AND ANALYSIS REQUEST

Page 24 of 26

 \dot{r} Cardinal cannot accept varial changes. Please fax written changes to (or

end East Martand, Hobbs, NM 85240 Bank MC 6703 980-2478 Consent Elon(1): PE Source Tion: Mill Enc 8270 Mart To Colspan="2">Antra Tion (1): PE Consent 408 WT Exc 8778 Consent Tion (1): PE Consent 408 WT Exc 8778 Source Tion (1): PE Consent 408 WT Exc 8778 Nume: Colspan="2">Colspan="2">Colspan="2" Consent 100" Nume: Colspan="2" Consent 100" Consent 100" Nume: Colspan="2" Consent 100" Consent 100" Consent 100" Nume: Colspan="2" Consent 100" Consent 100"
--

.

Page 25 of 26
Relinquished By: Dalivered By: Circle One) Date: Deceived By: Delivered By: (Circle One) D.4 Sampler - UPS - Bus - Other: MULLO / ISC Integration CHECKED BY: Sampler - UPS - Bus - Other: MULLO / ISC Integration CHECKED BY: Sampler - UPS - Bus - Other: MULLO / ISC Integration CHECKED BY:	p <u>uesse Notifie Liabily and Dimagen</u> . Cambrado incidente notice to strate of the version which have been and upon the second ball of the second ba	30 34 33 34 30 34 37 31 37 32 37	No No No No No No No No <th>B8210 Attn: -8905 Address: </th> <th>Talon/LPE</th> <th></th>	B8210 Attn: -8905 Address: 	Talon/LPE	
--	---	--	---	-----------------------------------	-----------	--

•

Page 26 of 26

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



August 25, 2017

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 08/18/17 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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,

Celey 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:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 0' (H702215-01)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 72-148							
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	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	84.0 \$	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	85.9	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such dam is based topon any of the above stated reasons or otherwise. Results relate only to be samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kune-



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 0' (H702215-02)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 72-148	}						
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	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0,422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	85.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.7	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEXE NOTE: Liability and Damages. Cardinal's flability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paki by client for analyses. All claims, including those for negligence and any other cause whitspecier shall be deemed waved unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal advore. This prost-shall network state reasons or otherwise. Results relate only to the samples identified above. This prost-shall network state reasons or otherwise. Results relate only to the samples identified above. This prost-shall network state reasons or otherwise.

Celeg D. Keine-



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 0.5' (H702215-03)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	6.18	103	6.00	0,950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 72-148	•						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	84.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.0	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 dient, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Liboratories.

Celeg D. Kune-



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-3 0' (H702215-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS			Windows Test Production and Production of the Pr		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2,02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0.150	0,150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 5	% 72-148	}						
Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: AC					·
Analyte -	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	77.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.1	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lability and Demages. 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 client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waived urless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample clientified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratives.

Celeg D. Keine



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-4 0' (H702215-05)

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	08/23/2017	ND	2.20	110	2.00	2.22	
Toluene*	<0.050	0.050	08/23/2017	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	2.07	104	2.00	1.10	
Total Xylenes*	<0,150	0.150	08/23/2017	ND	6.18	103	6.00	0.950	
Total BTEX	<0.300	0,300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 72-148	}						
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	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	75.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.3	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shell be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated mesors or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg 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:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-5 0' (H702215-06)

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	08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	5.96	99.4	6.00	3,72	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 \$	% 72-148	•						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	88.5 % 28.3-164		4						
Surrogate: 1-Chlorooctadecane	92.2	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liability and the hable 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 anking out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune-



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-6 0' (H702215-07)

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	08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1.99	99.4	2,00	3,78	
Total Xylenes*	<0.150	0,150	08/23/2017	ND	5.96	99.4	6.00	3,72	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 72-148	•						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/23/2017	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	⊤rue Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	88.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.9	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (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 dient, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such damins based upon any of the above. This report shall of be reported except in full with written approval of Cardinal Laborative.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-7 0' (H702215-08)

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		08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 \$	% 72-148	•						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2017	ND	416	104	400	7.41	
ТРН 8015М	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	73.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	74.2	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Utability and Damages. Cardinal's fability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such damin is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall notes except in full with written approval of Cardinal Laboratories.

Celeg 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:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-8 0' (H702215-09)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	5,96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0,422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	83.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.8	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whitspeever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be leable 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of cardinal laborations.

Celez thema-

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/18/2017	Sampling Date:	08/16/2017
Reported:	08/25/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	Cool & Intact
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-9 0' (H702215-10)

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	08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1,99	99.4	2.00	3,78	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	5.96	99,4	6.00	3.72	
Total BTEX	<0.300	0.300	08/23/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL 104 % 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2017	ND	416	104	400	7.41	
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	08/22/2017	ND	178	89.1	200	0.422	
DRO >C10-C28	<10.0	10.0	08/22/2017	ND	202	101	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	08/22/2017	ND					
Surrogate: 1-Chlorooctane	ogate: 1-Chlorooctane 77.5 % 28.3-		14						

Surrogate: 1-Chlorooctadecane 83.2 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thiny (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 use, or loss of profits incurred by dilent, is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such damins based to inclusion, or any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced eccept in full with written approval of Cardinal Laboratories.

Celeg & Keine



Notes and Definitions

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 Samples not received at proper temperature of 6°C or below.

 Insufficient time to reach temperature.

 Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced eccept in full with written approval of Cardinal Laboratories.

Celleg & Keine

Delivered By: (Circ Sampler - UPS - Bus	Relinquished By:	Relinquished By:	analyses, All calms including those for negligence and ney spryles, in na event shall Cardinal he labb for incldental or -faither ar enverone and and and of or related to the testor	of Passe Note: Unableward Banaara	٩	B	7	5	лЧ Г	rd's		2	-	F102215	i i i i i		FOR LAB LISE ONLY	Sampler Name:	Project Location:	ame:	** 1	Phone # 575-746-8768		\geq	N	Company Name: Talon/	101 프a (575) 3
(Circle One) D. G.C. Bus - Other: DUNDUUU	Date: Timer	Date; S.	anayses, Al chima insiading thesi for sengligence and any other cause whole over a whole whole durings inside the Waling and teachest by Charling Waling and any other causes and any other causes of the product of the	S. Cardina's labelity and elent's exclusive retreety for any data and all whether based	5-8 0	X-7 0 -			Śľ		1	()	0		Cample I-D.			JADKIN'S	Lea Country	# 2587	6.01			Texas Ave.	1	DN/LPE	101 East Warland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2475
Sample Condition Cool Intact I Yes I Yes	Received By:	Received By:	ether genuen winde perse simil he steenned valved unless made in willigt aus te ennesquentei demogae, including without limitation, husiness internettionen, leve manne of services interunter by Cardinal, tequadess of whether such delarit te	Tany dialim and ing whether based in contrast or tors						·			9	# CC GRC WAS SOII OIL SLU	AB OR (C DNTAINEF DUNDWA STEWATE DGE IER :	RS FER	MATRIX	L	MM Ph		an Lime Purch low	Fax #: 575-746-8905 Ac	Zip: 88210 Attn:		P.I		1240 76
	- mine	Fax	d reserved by Cardinal Within Sui days artist complemon at use av least of use, or least of profile insurred by offent, is subalifacian, is transf upon any of the above stated remons or otherwise.	Sit, shall be limited to the amount paid by the electric rite	1415	13.50	0/2/- 1340	12.	421		/0	1	0/ 11/18/17 10	ACII	D/BASE: /.COOI, IER :		PRESERV, SAMPLING	1	Phone 歩	State: Zip;	ξγ	Address:	μ.	company: Talon/LPE	P.D. # 701 50 1.086.01		
	Background	Phone Result. LI Yes Li No Fax Result. LI Yes LI No REMARKS:		the client for the		20	<u>/o .</u>	ro I I I I I I I I I I I I I I I I I I I	0	100	050	040	1030		BTT TP Ch			d.] -7 e2	.)]						n de la constante de la consta
	Serbor	Add'l Fax#:	TA SAID JEONA K																							ANALISIS NEWDESI	1
																			-								

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

aboratories

 $^+_{
m C}$ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



September 05, 2017

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 08/28/17 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,

Celey 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:	08/28/2017	Sampling Date:	08/16/2017
Reported:	09/05/2017	Sampling Type:	Soil
Project Name:	NVANU #73	Sampling Condition:	** (See Notes)
Project Number:	701307.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-3 25' (H702275-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/31/2017	ND	432	108	400	0.00	

Sample ID: B-3 30' (H702275-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/31/2017	ND	432	108	400	0.00	

Sample ID: B-3 35' (H702275-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/31/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Demages. 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 client for 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 thirty (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 dient, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based by ourse stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of cardinal Laboraties.

Celez Di Keine



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 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

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 client for analyses. All claims, including those for negligence and any other cause wholescever shall be deemed waived unless made in writing and received by Cardinal within thirry (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 the services hereunder by Cardinal, regardless of whether such claims based upon any of the above. This report shall be reported except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

	Project Manager: /, UllSov Address: 408 W. Texas Ave. State: NM Zit City: Artesia State: NM Zit Phone #: 575-746-8768 Fax #: 575-746 Project Mame: NUAWUF 13 Project Location: LCL County Sampler Name: NUAWUF 13 Provacusovy Sampler Name: Lab L.D. Sampler Island Lab L.D. Sampler Sampler Island Provacusovy Sampler Name: Provacusovy Sampler Name: Provacusovy Sampler Name: Provacusovy Sampler Name: Provacusovy Sampler Sampler Island Provacusovy Sampler Sampler Island Provacusovy Sampler Island Sampler Island Sampler Island Provacusovy Sampler Island Provacusovy Sampler Island Provacusovy Samplerelever Sam		AMALYSIS REQUEST
	<u> </u>		8
	. Texas	av: Talon/I	•
. Texas Ave.	State: NM		
M. Texas Ave. Image: NIM P.O. #: Image: NIM Image: NIM State: NIM Texas 20010 Company: Talon/LPE Image: NIM	State: IV		
K. W(ISON P.O. # Ave. Company: Talon/LPE State: NM zip: 88210 Attn:	<u>9/9-/40-8/68 Faxまち/</u>		
anager: 人 U/(SC∧) P.O. #: 408 W. Texas Ave. Company: Talon/LPE esia State: NM zip: 88210 575-746-8768 Fax #: 575-746-8905 Address:	70(307,086,01	Rock	
anager: K, W//SON P.O. #: 408 W. Texas Ave. company: Talon/LPE esia state: NM zip: 88210 attn: 575-746-8768 Fax #: 575-746-8905 Address: 70(307, 986, O1 Project Owner: Live Rock City:	なし ふつく 井	State: Zip:	<u></u>
per: K, W//SCN P.O. #: 8 W. Texas Ave. Company: Talon/LPE a State: NM Zip: 88210 5-746-8768 Fax #: 575-746-8905 Address: (307.086.01 Project Owner: /// VAVUL # 73 State: Zin:	LER Courter in	*	
K. W. Texas Ave. Po. #: W. Texas Ave. State: NM Zip: 88210 Company: Talon/LPE 746-8768 Fax #: 575-746-8905 Address: 307.086.01 Project Owner: Line Rock City: NUAWL# 73 State: Zip: State: Zip:	7 152	出.	
er: K , $W(ISON$ $P.0. \#$ $P.0. \#$ $P.0. \#$ 3 W. Texas Ave. State: NM zip: 88210 company: Talon/LPE $ISON ISON $	N 2/6-1 · C	2228.000	
er: K , $W/(Sov P.O. # 3 W. Texas Ave. State: NM zip: 88210 company: Talon/LPE -746-8768 Fax #: 575-746-8905 Address: :-746-8768 Fax #: 575-746-8905 Address: (307.986.01 Project Owner: Live Rock city: NUAWU # 7.3 State: Zip: n: LEA Counting State: Zip: NUAWU # 7.3 State: Zip: Current of the state: City: NUAWU # 7.3 State: Zip: Current of the state: City: NUAWU # 7.3 State: Zip: Current of the state: City: NUAWU # 7.3 Fax #: Current of the state: City: $	FOR LAB USE ONLY	PRESERV]	2)
er: K , $W/(Sov)$ P.O. # 3 W. Texas Ave. 3 W. Texas Ave. 5 State: NM zip: 88210 company: Talon/LPE 5 -746-8768 Fax #: 575-746-8905 Address: (307.086.01 Project Owner: Line Rock City: NUAWU # 73 State: Zip: NUAWU # 73 State: Zip: NUAWU # 73 Phone #: 5 . AO/KIN 3 Fax #: NUAWI MATRIX IPRESERVI SAME INC.	OMP.		-/((
er: $(I, U) (S \cap V)$ 3 W. Texas Ave. 3 W. Texas Ave. 5 V (I) S O I State: NM zip: 88210 $10 0 Attn:10 0 Attn:10$	Sample I.D.	TTAINERS INDWATE EWATER BE R: 3ASE: COOL R:	<u>.</u>
P.O. #: W. Texas Ave. State: NIM zp: 88210 Project Owner: Line Rock City: NUAWUER ROCK City: NUAWUER ROCK City: NTAINERS UNDWATER PROFERVISAMPLING R: BASE: COOL: R: CAUCY COUNTRY PROFERVISAMPLING CAUCY CITY: R: CAUCY CITY: CAUCY CITY: R: COUNTRY PROFERVISAMPLING CAUCY CITY: R: CAUCY CITY: R: CAUCY CITY: CAUCY CITY: R: CAUCY CITY:		# CO GROI WAS SOIL DIL DIL DIL DIL DIL DIL DIL DIL DIL D	
Smith W. Texas Ave. State: NM zip: 88210 Attn: Sitte: NM zip: 88210 Attn: Sitte: NM zip: 88210 Attn: NUAWUM Fax # 575-746-8905 Address: NUAWUM File Conspany: Talon/LPE Situble Inc. File NUAWUM File Conspany: Talon/LPE Situble Inc. File Situble File Conspany: Talon/LPE Situble File State: Zip: OIL State: Zip: State: OIL State: Zip: State: OIL State: State: Zip: OIL State: St	- 2 2 Z -	4/3//68	
P.O. # W. Texas Ave. State: NM Zp: 88210 State: NM Zp: 88210 Attn: -746-8768 Project Owner: Live Rest V. LAUCE # 13 V.	R-3 30		
P.D. #: W. Texas Ave. State: NM Zip: 88210 Company: Talon/LPE State: NM Zip: 88210 Address: Company: Talon/LPE State: NM Zip: 88210 Address: Company: Talon/LPE State: Zip: NUAVUL # 73 NUAVUL # 73 NUAV	8-3 35	2/16	
er: K. WIJGOV P.D. #: 3 W. Texas Ave. State: NM Zip: 88210 Attn: 1-746-8768 Fax #: 575-746-8905 Address: (301.966.01 Project Owner: /			
P			
er: $\langle V, U \rangle \langle S \rangle$ W. Texas Ave. W. Texas Ave. W. Texas Ave. State: NM zp: 88210 Attr: $V \rangle \langle V \rangle$ $V \rangle \langle V \rangle \langle Talon/LPE$ State: NM zp: 88210 Attr: $V \rangle \langle V \rangle \langle Talon/LPE$ $State: Tp: 1000 Attr: V \rangle \langle V \rangle \langle V \rangle \langle Talon/LPEV \rangle \langle Talon/LPE$			
er: $\langle V, U \rangle \langle S \rangle$ W. Texas Ave. State: NM zip: 88210 company: Talon/LPE state: NM zip: 88210 Attn: $(307.966.0)$ Project Owner: $Live Rock City:V UAWU # 73 Address: Zip: V UAWU # 73 Sample LD,V = AO(X_W) = AO$			
ar:: K. WIJON P.O. #: 3W. Texas Ave. State: NM zp: 88210 company: Talon/LPE -746-8768 Fax#: 575-746-8905 Address: (307 %6. 0) Project Owner: ////////////////////////////////////			
ar:: //. //. //. Po. #: 3W. Texas Ave. State: NM Zp: 88210 company: Talon/IL PE 7.46-8768 Fax#: 575-746-8905 Address: (307.986.01 Project Owner: ////////////////////////////////////	ISE NOTE: LIADITY and Damagne, Cardinal's liability and cleanty exclusive remease for any editor		
Chlorides	vez, Au clainta including these for nepligence and any other cause whatsonver shell be deemed v a. In no event shell Cardinal be liable for incidental or cansequental damager. Inditation without N	valved valeso mude in while and received by Cardinal willin 30 days after cardialation of the applicable "Involved valeso mude in while and received by Cardinal willin 30 days after cardialation of the applicable	
its chlorides	and or successions and any out of or related to the performance of services hereinder by Central (in in quished BV:	egendiess of whether such cloim is based uson way of the showe saled tomored by clerk its substituties. "Agendiess of whether such cloim is based uson way of the showe saled tomoons or charwise.	
it chlorides	~	Phone Result:	Yes 🗆 No 🛛
El Chlovides	Time:	Fax Result:	Yes II No
I Yes II No Add Phone #:	BV: Date: Date:	Well Por Jean :	
Image: К. U(//Sev P.O. #: 1028 W. Texas Ave. Sample: NM Zp: 882/10 Address: 215-746-8768 Fax #: 575-746-3905 Address: 1015 Tr/16-8768 Fax #: 575-746-3905 State: 1015 Tr/16-8768 Fax #: 725 Fax #: 725 1016 Tr/16-8768 Fax #: 725 Fax #: 725 1017 Tr/16-8768 Fax #: 725 Fax #: 726 1018 Tr/16-8768 Fax #: 726	M 4	eivese sy:	
Image: Image: <td>AVE IDINIA DAY</td> <td>MULLAND AND AND AND AND AND AND AND AND AND</td> <td>•</td>	AVE IDINIA DAY	MULLAND AND AND AND AND AND AND AND AND AND	•
Indext К. (V/// Со. V Бол.#: Sile Sile No.# Fallon/LPE Sile No.# For Sile No.# TO-746-8768 Fase 775-746-8905 Adress: TO-740-8768 Fase 775-746-8905 Adress: TO-740-8768 Fase 775-746-8905 Adress: TO-740-746-8005 Adress: Chy To-740-746-8005 Mark Chy To-740-746-8005 Mark Chy To-740-746 Fase 7 Polon # To-740-746 Fase 7<	S. Cano and C. C	CH	
Index K. Off. Co.w. Ford with the second secon	- Bus - Other: Pst in tral ox se		
Index: Control Got at: Bother: Sile Sile Sile 105:746-9768 Fragetommer, Live f. 622:10 Attress: Bother: 107:757-746-97605 Bother: 107:757-746-97605 Bother: 107:7577-746-97605 Bother: 107:7577-746-97607 Bother: 107:7577-746-97607 Bother: 107:7577-746-97607 Bother: 107:7577-746-97607 Bother: 107:75777-746-97607 Bother: 107:75777-746-97607 Bother: 107:757777 Bother: 107:7577777 Bother: 107:757777777777777777777777777777777777	Max X	LIT N	
Balter: C. /// Convert P. /// Convert Convert <t< td=""><td></td><td>17423 AV13131 MI 1111 1030 1000</td><td></td></t<>		17423 AV13131 MI 1111 1030 1000	

aunor accept verbal changes. Please fax written changes to (575) 393-2326

Page 4 of 4

CARDINAL CAPOLATORIOS