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 I 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 1.

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 I which illustrates the work area and references the sample locations.

Laboratory Results

See Appendix III for complete report of laboratory results.

August 25,	, 20	1/
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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'	4-2	1330			
	4'		368		2.	
	5'		1070			(me)
	10'	- 44	1150	44		
	15'	94	240		-	
	20'	- 4	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		22	
	4'		3280	77		***
	5'	199	2680	4-		20
	10'		2760	-		,00
	15'		1260			
	20'	(224			

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		1221	24
	15'		2200			
	20°		1200			
	25'		800		124	
	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'	04	400	Δ4	122	44
	5'		400			
	10'		1520			4-
	15'		528		11	
	20'		176			94)

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
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

Limberly M. Wilson

Project Manager

David J. Adkins

District Manager

Attachments:

Appendix I Site Plan

Appendix II Groundwater Data Appendix III Laboratory Results

APPENDIX I SITE MAP



APPENDIX II GROUNDWATER DATA



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned,

C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NA

(NAD83 UTM in meters)

(In feet)

	POD											}
	Sub-		Q Q Q									Water
POD Number	Code basin	County	64 16 4	Sec	Tws	Rng	χ	Υ	Distance	Well	Water	Column
L 03241	L	LE	2 2	10	17S	34E	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

Average Depth to Water:

89 feet

Minimum Depth:

80 feet

Maximum Depth:

95 feet

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, 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/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.

Celes D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Soil

Project Name:

NVANU #73

Sampling Type: 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				Name of the last o	
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	1880	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	85.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.4	% 34.7-15	7						

Analysis d Dec MC

Cardinal Laboratories

*=Accredited Analyte

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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

Soil

Project Name:

NVANU #73

Sampling Type: Sampling Condition:

Cool & Intact

Project Number: Project Location:

701307.086.01 LEA COUNTY, NM Sample Received By:

Tamara Oldaker

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 9	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	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						

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

Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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	104 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	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						

Analysis d Byy MC

Cardinal Laboratories

*=Accredited Analyte

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

Received:

08/18/2017

Reported:

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

BS

448

448

BS

448

448

BS

448

Soil

Sampling Condition:

Cool & Intact Tamara Oldaker

Sample Received By:

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

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

1330

Result

368

Result

1070

Result

1150

Result

240

Analyzed By: AC

08/22/2017

Analyzed

08/22/2017

08/22/2017

Analyzed

08/22/2017

Analyzed

08/22/2017

Analyte Result Reporting Limit Analyzed Method Blank

ND

% Recovery 112

True Value OC

Oualifier

400 0.00

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

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

Method Blank BS % Recovery

112

True Value QC

400

RPD

0.00

RPD

Qualifier

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

ND

ND

% Recovery

112

112

True Value QC

400

400

RPD

0.00

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery True Value OC RPD

0.00

Oualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Chloride

Method Blank

ND

% Recovery 112

True Value QC

400

RPD 0.00 Qualifier

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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

Soil

Project Name:

NVANU #73

Sampling Type: Sampling Condition:

Cool & Intact

Project Number: Project Location: 701307.086.01 LEA COUNTY, NM Sample Received By:

Tamara Oldaker

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC	m (0) 1			W-2000	
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

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

Received:

08/18/2017

Reported:

08/25/2017 NVANU #73

Project Name: Project Number: Project Location:

701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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 %	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	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						

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

Received:

08/18/2017

Reported:

08/25/2017

Project Name:

NVANU #73

Project Number:

701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS		MANAGEM CONTRACTOR CON			,
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					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	08/22/2017	ND	432	108	400	3.64	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS				<u> </u>	
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	84.9	% 34.7-15	7						

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Fax To:

(575) 745-8905

Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number:

NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

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 %	6 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	
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	81.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.6	% 34.7-15	7						

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Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

Analyte

Analyte

Analyte

Analyte

Analyte

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value OC

RPD

Qualifier

Chloride

3280

Result

16.0

Reporting Limit

Reporting Limit

08/22/2017

Analyzed

Analyzed

Analyzed

ND

BS 432

108

400

3.64

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 3280

16.0 08/22/2017

432

BS

108

400

3.64

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Qualifier

Chloride

2680

Result

16.0

08/22/2017

Method Blank

BS

% Recovery

True Value QC

RPD

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

ND

432

108

400

3,64

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Chloride

Result 2760

Result

1260

Analyzed 08/23/2017 Method Blank ND

BS 432 % Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride, SM4500Cl-B

mg/kg

ND

108

400

3.64

RPD

3.64

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

Analyzed By: AC

08/23/2017

Analyzed

Method Blank BS

432

% Recovery

108

True Value QC

400

Qualifier

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Celey D. Keene, Lab Director/Quality Manager

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

Received:

08/18/2017

Reported:

08/25/2017

Project Name:

NVANU #73

Project Number:

701307.086.01

Project Location:

Analyte

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Result Reporting Limit

Analyzed Me

Method Blank

BS % Recovery

True Value QC

RPD

Qualifier

Chloride

224

16.0

08/23/2017

ND

432

108

400

3.64

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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

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					#- ma
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	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	76.4	% 34.7-15	7						

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Fax To: (575) 745-8905

Received:

08/18/2017

Reported:

08/25/2017

Project Name: Project Number: NVANU #73

Project Location:

701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS	pypoparameter				
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	Analyze	d By: AC		111			
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	d By: MS			- Lehith -		
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	74						
Surrogate: 1-Chlorooctadecane	99.3	% 34.7-15	7						

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Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					200.000
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 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					u
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	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	72.1 5	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	75.5	% 34.7-15	7						

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Fax To:

(575) 745-8905

Received: Reported: 08/18/2017

08/25/2017

Project Name:

NVANU #73

Project Number:

701307.086.01

Project Location:

Analyte

Analyte

Analyte

Analyte

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

BS

432

432

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Result

1880

Result

1300

Reporting Limit

16.0

16.0

Analyzed

08/23/2017

08/23/2017

Method Blank ND

% Recovery 108

True Value QC

RPD

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

108

400

3.64

Reporting Limit Analyzed Method Blank ND

BS % Recovery True Value QC

400

RPD

3.64

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

Chloride

Result 3040

08/23/2017

BS

RPD

Qualifier

Result

2880

16.0

Reporting Limit

16.0

Reporting Limit

ND

432

108

% Recovery

True Value OC 400

3.64

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

08/23/2017

Method Blank

ND

BS

432

% Recovery

108

True Value QC

400

RPD

3,64

Qualifier

Qualifier

Chloride

Chloride

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result

2200

Reporting Limit

16.0

Analyzed 08/23/2017 Method Blank ND

BS

432

% Recovery 108

True Value QC

400

RPD 3,64

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Celey D. Keene, Lab Director/Quality Manager



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Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number: NVANU #73

Project Location:

Analyte

701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

BS % Recovery True Value QC

RPD 3,64 Qualifier

Chloride

Result

Analyzed

ND

432

108

1200

Reporting Limit 16.0

08/23/2017

400

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Celey D. Keene, Lab Director/Quality Manager



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

Received:

08/18/2017

Reported:

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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 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	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	85.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.0	% 34.7-15	7						

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Celeg & Keine



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

Received:

08/18/2017

Reported:

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

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	6 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	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						

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*=Accredited Analyte

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Celley D. Keens



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

28.3-164

34.7-157

94.2 %

95.5 %

(575) 745-8905

Received:

08/18/2017

Reported:

08/25/2017

Project Name: Project Number: Project Location: NVANU #73 701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS	www.comovoco				
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	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					

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg There



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 08/18/2017

08/25/2017

Project Name:

NVANU #73

Project Number:

701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit

Analyzed 08/23/2017 Method Blank

BS % Recovery True Value QC

RPD

Qualifier

Chloride

Chloride

560

Result

160

16.0

Reporting Limit

16.0

Reporting Limit

ND

416

104

400

7.41

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

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

Analyzed

08/23/2017

Method Blank

ND

% Recovery

True Value QC

400

RPD

Oualifier

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value QC

RPD

Chloride

Result 400

16.0

08/23/2017

Analyzed

416

Qualifier

ND

BS

BS

416

104

104

400

7.41

7.41

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 1520

Result

528

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 08/23/2017

ND

416

104

Chloride

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

Chloride, SM4500CI-B

Analyzed By: AC

400

True Value OC

400

7.41

Analyte

mg/kg

Analyzed

08/23/2017

Method Blank

ND

BS

416

% Recovery

104

RPD

7.41

Oualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Kenne

Celey D. Keene, Lab Director/Quality Manager

Page 20 of 26



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

Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number: NVANU #73

Project Location:

Analyte

701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Result Reporting Limit

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Chloride

176

16.0

08/23/2017

ND

416

104

400

7.41

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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aleg theme



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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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		WIND REMARKS:	Figure Result: ☐ Yes ☐ No Add'l Phone #:	piicabie		25 //	-//35	1/25			00/16/17 //00	AC O DATE		TRX#:	Phone #:	State: Zip:	City	Address:	. 1	Company: Talon/LPE	ED.# 701307.086.01	ANALYSIS REQUEST



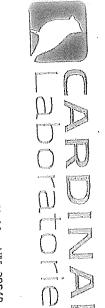
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Time: 18-1 Date:		101 East Warland, Hobbs, NW 88240
ed By: Sample Condition CHECKED BY: Gool Intact Gres Tyes Tyes I No No No Rock	E Chlandes	
	NALYSIS KEGUESI	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: Sampler - UPS -		Relinguished By:		afficies or successor arisin Relinguished By	enelyses, All sielms inclusion enelyses, All sielms inclusion envice, in he event shall or	er pros voint i labily an	32	26	35	22	112	73	2	2	-Q	するならず		55		Parthaussonn	Project Location:	Project Name:	-	7 0			Project manager:		(5) 7:
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Cool Intact Cool Intact Cool Intact Cool Intact Cool Intact No Intact No Intact	Sample Considion	Received By:	Munora Co	Received By:	analyses. All adding those for negligenow and any other quase whichoever chief be designed wayled infect material washing for the problem for a chief before the problem for a chief befor	navising whether based in contract or	5									GI W Si O	ROU		YTER	MATRIX	TI u	יבי		Live lack lotty:	746-8905 Au	zip: 88210 Attn:	Co	P.(
	D CHECKED BY:		Martin .		and the state of maga justiced of equations of the state of magazine and the state of the state	על בנות יותים ביות מונים להיותים או היותים או היותים היותים או היותים או היותים או היותים או היותים או היותים ביותים ביותים ביותים ביותים ביותים ביותים ביותים ביותים היותים היותים היותים היותים היותים היותים היותים היותי									-		CIDA	BASE COOL		PRESERV, SAMPLING		Phone 尝	State: Zip:	ev:	Address:	ín;	Company: Talon/LPE	P.O.# 70/ 307.086.	
	·	~ V		Fax Result: U Y	1	id by the cijent for the er completion of the applicable	No the	14/2/3	14/40	3 -	1402	1400	// NO / N	1000	100/	1345/		B T	r &			<u></u>	7	.)			m	6.01	
		K.	ひょ	Yes 口 No Add! Fax共											\			C	W	ØV	CIC	Ce							ANALYSIS
NELOCIONES EN LE CONTROL DE LA CONTROL D	`			ax#:	rone it														•				na n				ala manana di Albanda		SIS REQUEST
		••				•																							



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Time: Delivered By: (Circle One) 1.44 Sampler - UPS - Bus - Other; / / / / / / / / / / / / / / / / / / /	Refinquished By: Refinquished By: Time: 0 \$ \text{MMMM } \text{MMMM } \text{MMMM } \text{MMMMM } MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	9 PLEASE NOTE: Liability and Diameters. Cultimate fieldings and clients and there is re-lease at addition that of the court white is re-lease at addition that the court white court with any other courts white see	0 1-2 5	3-4	775	1702214 P-4 01	Sample 10	Sampler Name: D. ADICIUS	DVACA	Phone 575-746-8768 Fax #: 0	Ave.	Rum Barky WU	01 East W 676) 393-2
The: RECEIVED BY: Sample Condition OHECKED BY: Cool Integration OHECKED BY: Cool Integration OHECKED BY: Cool Integration OHECKED BY: OHECKED	Time: 0 5 1000 1000 1000 1000 1000 1000 1000	R-4 20 16 16 16 16 16 16 16 16 16 16 16 16 16	0.00	1520		# 0 G W V O S O O O O O O O			Phone #:		State: NM Zip: 88210 Attn:	So \ P.O. #: 70/ 367.086 Company: Talon/LF	NW 88246 811 O ANALYSIS REQUEST S93-2476 ANALYSIS REQUEST



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/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.

Celes D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

08/18/2017

Reported:

08/25/2017 NVANU #73

Project Name: Project Number:

701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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	% 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	84.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	85.9	% 34.7-15	7						

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Celeg D. Frema



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

FdX

Received: 08/18/2017

Reported: 08/25/2017 Project Name: NVANU #73

Project Number: 701307.086.01

Project Location: LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS		NII			
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					A
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						

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

Fax To:

(575) 745-8905

Received:

08/18/2017

Reported: Project Name:

08/25/2017 NVANU #73

Project Number: Project Location:

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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	

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84.5 %

89.0 %

28.3-164

34.7-157

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

Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number: Project Location: NVANU #73 701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS			TO CARLO THE THE TOTAL TO THE TOTAL		AND THE RESERVE OF THE PARTY OF
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	<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						

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alex D. Keine



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

Received: Reported: 08/18/2017

08/25/2017

Project Name: Project Number: NVANU #73

Project Location:

701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS		The State of the S			
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	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	75.0	% 28.3-164	1						
Surrogate: 1-Chlorooctadecane	76.3	% 34.7-157	7						

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

Received:

08/18/2017

Reported:

08/25/2017

Project Name:

NVANU #73

Project Number:

701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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 %	6 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	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	92.2	% 34.7-15	7						

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Received:

08/18/2017

Reported:

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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 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	88.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.9	% 34.7-15	7						

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Fax To:

(575) 745-8905

Received:

08/18/2017

Reported:

08/25/2017

Project Name: Project Number: NVANU #73 701307.086.01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS		t to the second			4
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	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	73.4 9	% 28.3-16	·4						
Surrogate: 1-Chlorooctadecane	74.2	% 34.7-15	7						

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

Received:

08/18/2017

Reported:

08/25/2017 NVANU #73

Project Name: Project Number: Project Location:

701307.086.01

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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-I48							
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						

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Fax To:

(575) 745-8905

Received:

08/18/2017

Reported:

08/25/2017

Project Name: Project Number: NVANU #73

Project Location:

701307.086.01 LEA COUNTY, NM Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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	77.5	% 28.3-16	··4						
Surrogate: 1-Chlorooctadecane	83.2 5	% 34.7-15	7						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

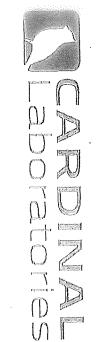
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Werland, Hobbs, NW 88240 (575) 393-2325 FAX (575) 393-2475

(F	(575) 393-2326 FAX (575) 393-2476	Market Street St			
Company Name:	Talon/LDE	A CONTRACTOR OF THE CONTRACTOR		MAL FOIS	OIG TERCTO!
Project Manager:	-	P.O. #	P.D.# 701301.086,01		
Address: 408 W	r t	comp	company: Talon/LPE		
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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 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.

Celes D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

08/28/2017

Reported:

09/05/2017

Project Name: Project Number: NVANU #73 701307,086,01

Project Location:

LEA COUNTY, NM

Sampling Date:

08/16/2017

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

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

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result 800

Result

336

16.0

Reporting Limit

Reporting Limit

16.0

08/31/2017

Analyzed

Analyzed

08/31/2017

Method Blank ND

432

BS

432

% Recovery 108

True Value QC 400

RPD 0.00 Qualifier

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

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

True Value QC

400

RPD

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed
	16.0	16.0	08/31/2017

Method Blank ND

BS 432 % Recovery 108

108

True Value QC 400

RPD 0.00

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability 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 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 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,

Celego trena

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

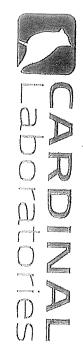
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Talon/I PF

1901177	BILL TO ANALYSIS REGUEST
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W. Texas Ave.	Company: Talon/LPE
State: NM Zip: 88210	
11	Address:
Project#: 70(307,086, 0) Project Owner: 1 me Rock	
Project Name: NUANCH 73	State: Zip:
Project Location: LER County ym	+
Sampler Name: D. ADKIN 3	Ť
OMP.	PRESERV, SAMPLING
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