### ENVIRONMENTAL PLUS, INC.

2100 AVE 'O' P.O. BOX 1558 EUNICE, NM 88231 ddominguezepi@gmail.com Office: (575) 394-3481 Fax: (575) 394-2601



NMOCD approves the delineation work plan for 1RP-4371 with these conditions: Bottom confirmation samples at SP1/SP4, SP2, and SP3.

#### Site Characterization and Work Plan

Apache Corp. NEDU 503W Lea County, New Mexico Unit Letter "K", Section 10, Township 21 South, Range 37 East Latitude 32.4918556 North, Longitude 103.1526871 West NMOCD Reference #1RP-4371

Prepared For:

Apache Corp. 2350 W Marland Blvd Hobbs, New Mexico 88240

Prepared By:

Environmental Plus, Inc. 2100 Ave 'O' Eunice, NM 88231

March 2017

Daniel Dominguez Project Manager



The following *Site Characterization and Work Plan* serves as a condensed update on field activities undertaken and proposed actions for the afore referenced Site.

#### **Background:**

The site is located in Unit Letter K (NE <sup>1</sup>/<sub>4</sub> SW <sup>1</sup>/<sub>4</sub>), Section 10, Township 21 South, Range 37 East, approximately four miles north of Eunice, in Lea County, New Mexico. The property is owned by the State of New Mexico.

The release site is located on an active lease road; latitude 32.4918556 North, longitude 103.1526871 West. Area Map, Site Location Map, and Sample/Site Map are included as Figure 1, Figure 2, and Figure 3, respectively. The Initial NMOCD Form C-141 indicated that on June 30, 2016 approximately 65 barrels of produced water were released when a fiberglass line became unglued releasing the fluid to lease road and pasture. A vacuum truck was dispatched to the site and recovered approximately 60 barrels, resulting in a net loss of 5 barrels of produced water. The visually stained area covers approximately 1,700 square feet of lease road and pasture. The Initial NMOCD Form C-141 in included as Attachment IV.

#### **NMOCD Site Classification:**

A search for water wells was completed utilizing the New Mexico Office of the State Engineer's (NMOSE) website. There are two wells located in the area surrounding the release site (reference *Table 1*). Also, no wells (domestic, agriculture or public) and no bodies of surface water exist within a 1,000-foot radius of the release site (reference *Figure 2*). The NMOSE database indicates average water depth is approximately 73 feet below ground surface (bgs) within a 2,000-meter radius of the release site (reference *Attachment II*).

Utilizing this information, the NMOCD guidelines indicate the NEDU 503W release site to have a ranking score of ten. Based on this score, the NMOCD Recommended Remedial Action Levels (RRALs) for this Site were determined as follows: Benzene – 10 mg/Kg, BTEX – 50 mg/Kg, TPH – 1,000 mg/Kg, and Chloride – 500 mg/Kg.

At the point of release the produced water covered an area about 20' x 30'. This area is loamy clay topsoil. The produced water traveled down a lease road approximately 140'. This area is highly compacted caliche.

#### **Remediation Progress:**

On July 1, July 7, and August 3, 2016, EPI personnel mobilized on site collect soil samples to determine the vertical extent of contamination. A total of eighteen soil samples were collected from four sample locations; SP1 – SP4. All samples were placed on ice and transported to Cardinal Labs in Hobbs, New Mexico for testing. Laboratory results indicate the release area to be void of Benzene, BTEX, and TPH concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 10 mg/Kg, 50 mg/Kg, and 1,000 mg/Kg, respectively, in all samples. Chloride concentrations exceed NMOD RRALs of 500 mg/Kg at each sample location to varying depths (reference *Figure 3* and *Table 2*).



#### **Proposed Actions:**

As per the March 8, 2017 Apache Corp. discussion with NMOCD personnel, EPI proposes to excavate the release area around SP1 and SP4 to a depth of two feet bgs. The area around SP2 and SP3 will be excavated to a depth of one foot bgs. No further sampling of the area will be required. As the release area is located on an active lease road, once excavation activities are complete, EPI proposes to backfill the excavation with clean soil. The road excavation will be backfilled with caliche; the pasture excavation will be backfilled with select topsoil. All soil will be free of rocks, clumps or deleterious material.

Backfilling will continue until the entire excavation is closed. Upon completion of backfill activities, the entire disturbed area will be contoured to blend with existing lease road and pasture and protected against wind/water erosion.

Following completion of NMOCD approved Proposed Actions, EPI will provide a detailed *Final Closure Report* to Apache Corp. and NMOCD personnel. Apache Corp. and EPI personnel would welcome an opportunity to briefly discuss the *Work Plan* at your earliest convenience. However, should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at ddominguezepi@gmail.com or Mr. Bruce Baker at (432) 631-6982 or via e-mail at larry.baker@apachecorp.com. All official communication should be addressed to:

Mr. Bruce Baker Apache Corp. 2350 W Marland Blvd Hobbs, New Mexico 88240

Sincerely,

ENVIRONMENTAL PLUS, INC.

Don

Daniel Dominguez Environmental Consultant



cc: Olivia Yu, Environmental Specialist – NMOCD District 1, Hobbs Bruce Baker, Environmental Technician – Apache Corp. File

Encl.: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Sample/Site Map
Table 1 – Well Data
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results
Attachment I – Photographs
Attachment II – NMOSE Average Depth to Groundwater
Attachment III – Laboratory Analytical Results
Attachment IV – Copy of Initial NMOCD Form C-141

**FIGURES** 







#### TABLES

## **TABLE 1**

# Well Data

# Apache Corporation - NEDU 503W

Ref #	Well Number	Use	Use Diversion <sup>A</sup>	Owner	q64	q16	q.4	jec Tw	q16 q4 Sec Twsp Rng	g Easting	Northing	Distance <sup>B</sup>	Date Measured	Surface Elevation <sup>C</sup>	Depth to Water
															(ft bgs)
1	CP 00215	COM	20	J. M. OWEN	1	1	3	11 21	21S 37E	674637	3596550	1,061		3,415	
2	CP 00554	STK	3	MILLARD DECK		2	2	16 21	21S 37E	672744 3.	3595610	1,197	05-Jun-76	3,472	70

\* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr\_RegisServlet1)  $^{A}$  = In acre feet per annum  $^{B}$  = In meters  $^{C}$  = Elevation interpolated from USGS topographical map based on referenced location.

 $^{B}$  = In meters  $^{A}$  = In acre feet per annum

-- = Data not provided COM = Commercial STK = 72-12-1 Livestock watering quarters are 1=NW, 2=NE, 3=SW, 4=SE, quarters are smallest to biggest

**TABLE 2** 

# Summary of Soil Sample Field Testing and Laboratory Analytical Results Apache Corporation NEDU 503W

Sample ID	Depth (feet)	Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenz ene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
	Surface	In Situ	01-Jul-16	0.5	1,760	<0.050	<0.050	<0.050	< 0.150	<0.300	<10.0	598	598	2,480
SP1	0.5	In Situ	01-Jul-16	0.0	1,600	-	1	1	ł	1	:	:	1	1,600
	1	In Situ	07-Jul-16	0.0	960	-	1	1	-	1	:	:	1	928
	Surface	In Situ	01-Jul-16	0.0	2,400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	3,360
	0.5	In Situ	01-Jul-16	0.1	480	1	1		-	1	:	:	1	464
COD	1	In Situ	07-Jul-16	0.0	600	-	1			-	-	:	1	544
512	1.5	In Situ	07-Jul-16	0.0	560	-	1	-	-	1	:	:	1	576
	2	In Situ	07-Jul-16	0.0	400	-	-			-	-	-	-	432
	3	In Situ	07-Jul-16	0.0	360	-	1	-	-	-	-	:	-	352
	Surface	In Situ	01-Jul-16	0.0	2,480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.5	45.5	2,720
SP3	0.5	In Situ	01-Jul-16	0.1	1,200	-	1	-	-	1	:	:	1	656
	1	In Situ	07-Jul-16	0.0	200	1	I	1	1	I	:	:	I	176
	Surface	In Situ	03-Aug-16	-	>4,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	390	390	12,000
	0.5	In Situ	03-Aug-16	1	1,360	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	1,060
SDA	1	In Situ	03-Aug-16	1	2,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.8	40.8	3,080
r To	1.5	In Situ	03-Aug-16	-	640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	992
	2	In Situ	03-Aug-16	-	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	176
	2.5	In Situ	03-Aug-16	1	160	-	1	ł	ł	ł	!	!	1	208
NMOCD Recommended Remedial Action Levels	mmended	l Remedial /	Action Levels	100		10				50			1,000	500
- Not Andread														

- - = Not Analyzed **Bold** values are in excess of NMOCD Recommended Remedial Action Levels

#### ATTACHMENTS

ATTACHMENT I Photographs



Photograph #1- Point of release



Photograph #2- Looking across release area.

ATTACHMENT II NMOSE Average Depth to Groundwater



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	•••					2=NE 3 st to larg	=SW 4=SE	) AD83 UTM in me	ters)	(1	n feet)	
water right me.y	POD	(पज	arte	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		mane		goot) (14,		(010)	(.	in rooty	
	Sub-	C	2 6	Q							Depth	Depth	Water
POD Number	Code basin Cour	nty 6	4 1	64	Sec	Tws	Rng	Х	Y	Distance	Well	Water	Column
CP 00554	LE	-	2	2 2	16	21S	37E	672744	3595610* 🌍	1197	80	70	10
CP 00552	LE		2	2 4	04	21S	37E	672700	3598022* 🌍	1784	90	75	15
CP 00553	LE		2	2 4	04	21S	37E	672700	3598022* 🌍	1784	90	75	15
CP 00729 POD1	CP LE		1 1	3	15	21S	37E	673259	3594711* 🌍	1786	8015		
									Averaç	ge Depth to	Water:	73	feet
										Minimum	Depth:	70	feet
										Maximum	Depth:	75	feet
Record Count: 4			_										
UTMNAD83 Radius	Search (in meters):												
Easting (X): 6735	578	N	ort	hin	g (Y)	: 359	96469		Radius	2000			

\*UTM location was derived from PLSS - see Help

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

ATTACHMENT III Laboratory Analytical Results



July 13, 2016

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

**RE: NEDU 503 W** 

Enclosed are the results of analyses for samples received by the laboratory on 07/07/16 15:36.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	07/07/2016	Sampling Date:	07/01/2016
Reported:	07/13/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 1 (SURFACE) (H601521-01)

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	07/08/2016	ND	1.99	99.5	2.00	0.129	
Toluene*	<0.050	0.050	07/08/2016	ND	2.04	102	2.00	0.862	
Ethylbenzene*	<0.050	0.050	07/08/2016	ND	1.96	98.2	2.00	0.914	
Total Xylenes*	<0.150	0.150	07/08/2016	ND	5.93	98.8	6.00	0.0424	
Total BTEX	<0.300	0.300	07/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	07/08/2016	ND	400	100	400	7.69	
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	<50.0	50.0	07/11/2016	ND	173	86.7	200	2.02	
DRO >C10-C28	598	50.0	07/11/2016	ND	177	88.5	200	1.15	
Surrogate: 1-Chlorooctane	78.3 9	35-147	7						
Surrogate: 1-Chlorooctadecane	95.4 9	6 28-171							

#### Sample ID: SP 1 (6") (H601521-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	07/08/2016	ND	400	100	400	7.69	

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	07/07/2016	Sampling Date:	07/07/2016
Reported:	07/13/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 1 (1') (H601521-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	07/08/2016	ND	400	100	400	7.69	

#### Sample ID: SP 2 (SURFACE) (H601521-04)

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	07/08/2016	ND	1.99	99.5	2.00	0.129	
Toluene*	<0.050	0.050	07/08/2016	ND	2.04	102	2.00	0.862	
Ethylbenzene*	<0.050	0.050	07/08/2016	ND	1.96	98.2	2.00	0.914	
Total Xylenes*	<0.150	0.150	07/08/2016	ND	5.93	98.8	6.00	0.0424	
Total BTEX	<0.300	0.300	07/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	07/08/2016	ND	400	100	400	7.69	

Chloride	3360	16.0	07/08/2016	ND	400	100	400	7.69	
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	07/11/2016	ND	173	86.7	200	2.02	
DRO >C10-C28	<10.0	10.0	07/11/2016	ND	177	88.5	200	1.15	
Surrogate: 1-Chlorooctane	80.1	% 35-147	7						
Surrogate: 1-Chlorooctadecane	74.7	% 28-171	!						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	07/07/2016	Sampling Date:	07/01/2016
Reported:	07/13/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 2 (6") (H601521-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/08/2016	ND	400	100	400	7.69	

#### Sample ID: SP 2 (1') (H601521-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	544	16.0	07/08/2016	ND	400	100	400	7.69			

#### Sample ID: SP 2 (1.5') (H601521-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM													
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier								
Chloride	576	16.0	07/08/2016	ND	400	100	400	7.69									

#### Sample ID: SP 2 (2') (H601521-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/08/2016	ND	400	100	400	7.69	

#### Sample ID: SP 2 (3') (H601521-09)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/08/2016	ND	400	100	400	7.69	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	07/07/2016	Sampling Date:	07/01/2016
Reported:	07/13/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 3 (SURFACE) (H601521-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/08/2016	ND	1.99	99.5	2.00	0.129	
Toluene*	<0.050	0.050	07/08/2016	ND	2.04	102	2.00	0.862	
Ethylbenzene*	<0.050	0.050	07/08/2016	ND	1.96	98.2	2.00	0.914	
Total Xylenes*	<0.150	0.150	07/08/2016	ND	5.93	98.8	6.00	0.0424	
Total BTEX	<0.300	0.300	07/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2720	16.0	07/08/2016	ND	400	100	400	7.69	
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	07/11/2016	ND	173	86.7	200	2.02	
DRO >C10-C28	45.5	10.0	07/11/2016	ND	177	88.5	200	1.15	
Surrogate: 1-Chlorooctane	78.3 9	% 35-147	7						
	78.4 9	% 28-171							

#### Sample ID: SP 3 (6") (H601521-11)

Chloride, SM4500Cl-B	mg /	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	07/08/2016	ND	400	100	400	7.69	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	07/07/2016	Sampling Date:	07/07/2016
Reported:	07/13/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 3 (1') (H601521-12)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Chloride	176	16.0	07/08/2016	ND	400	100	400	7.69				

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

   RPD
   Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Sampler Relinquished: Relinquished by Delivered by	10	9	8	7	6	57 5	4		2	1	HOUSAI	LAB I.D.		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name	(575) 394-3481 F/	2100 Avenue O, Eunice, NM 88231	Environm		
J. 70 Time (pr.3) Time (pr.3) Time 3370 So	)SP3 (Surface)	9 SP2 (3')		SP2 (1.5')		SP2 (6")	4 SP2 (Surface)	SP1 (1')	SP1 (6")	SP1 (Surface)		SAMPLE I.D.		e David Robinson		UL- K Sec. 10, 1215,	503W	Apache	575-394-3481 / 5/5-394-2001	Eunice New Mexico 88231			Environmental Plus,	01		s, Inc.	4	
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E-mail results to: ddominguezepi@gmail.com & larry.baker@apachecorp.com NOTES:	01-10-10	01-11-16	07-Jul-16	07-111-16	07-Jul-16	07-JUI-10	ol-inc-Lo	0/-001-10	07 1.1 46	01-111-16	01-Jul-16	DATE	T	SAMPLING					Attn: Bruce Baker	Apache Corp.				Fo				
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Page 1 of 2

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Page 2 of 2



August 08, 2016

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558

Eunice, NM 88231

**RE: NEDU 503 W** 

Enclosed are the results of analyses for samples received by the laboratory on 08/03/16 15:37.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	08/03/2016	Sampling Date:	08/03/2016
Reported:	08/08/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 4 (SURFACE) (H601737-01)

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	08/04/2016	ND	2.18	109	2.00	2.17	
Toluene*	<0.050	0.050	08/04/2016	ND	2.24	112	2.00	1.96	QM-07
Ethylbenzene*	<0.050	0.050	08/04/2016	ND	2.13	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/04/2016	ND	6.39	106	6.00	2.20	
Total BTEX	<0.300	0.300	08/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	08/05/2016	ND	400	100	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	08/04/2016	ND	197	98.5	200	5.03	
DRO >C10-C28	390	10.0	08/04/2016	ND	202	101	200	9.04	
Surrogate: 1-Chlorooctane	87.6 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	110 %	6 28-171							

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	08/03/2016	Sampling Date:	08/03/2016
Reported:	08/08/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 4 (6") (H601737-02)

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	08/04/2016	ND	2.18	109	2.00	2.17	
Toluene*	<0.050	0.050	08/04/2016	ND	2.24	112	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/04/2016	ND	2.13	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/04/2016	ND	6.39	106	6.00	2.20	
Total BTEX	<0.300	0.300	08/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	08/05/2016	ND	400	100	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	08/04/2016	ND	197	98.5	200	5.03	
DRO >C10-C28	<10.0	10.0	08/04/2016	ND	202	101	200	9.04	
Surrogate: 1-Chlorooctane	85.4 9	35-147	,						
Surrogate: 1-Chlorooctadecane	92.0 9	28-171							

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	08/03/2016	Sampling Date:	08/03/2016
Reported:	08/08/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 4 (1') (H601737-03)

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	08/04/2016	ND	2.18	109	2.00	2.17	
Toluene*	<0.050	0.050	08/04/2016	ND	2.24	112	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/04/2016	ND	2.13	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/04/2016	ND	6.39	106	6.00	2.20	
Total BTEX	<0.300	0.300	08/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	08/05/2016	ND	400	100	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	08/04/2016	ND	197	98.5	200	5.03	
DRO >C10-C28	40.8	10.0	08/04/2016	ND	202	101	200	9.04	
Surrogate: 1-Chlorooctane	73.1 9	35-147	,						
Surrogate: 1-Chlorooctadecane	71.19	6 28-171							

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	08/03/2016	Sampling Date:	08/03/2016
Reported:	08/08/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 4 (1.5') (H601737-04)

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	08/04/2016	ND	2.18	109	2.00	2.17	
Toluene*	<0.050	0.050	08/04/2016	ND	2.24	112	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/04/2016	ND	2.13	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/04/2016	ND	6.39	106	6.00	2.20	
Total BTEX	<0.300	0.300	08/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	08/05/2016	ND	400	100	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	08/04/2016	ND	197	98.5	200	5.03	
DRO >C10-C28	<10.0	10.0	08/04/2016	ND	202	101	200	9.04	
Surrogate: 1-Chlorooctane	92.5 9	35-147	,						
Surrogate: 1-Chlorooctadecane	98.4 9	28-171							

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	08/03/2016	Sampling Date:	08/03/2016
Reported:	08/08/2016	Sampling Type:	Soil
Project Name:	NEDU 503 W	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 10, T21S, R37E		

#### Sample ID: SP 4 (2') (H601737-05)

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	08/04/2016	ND	2.18	109	2.00	2.17	
Toluene*	<0.050	0.050	08/04/2016	ND	2.24	112	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/04/2016	ND	2.13	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/04/2016	ND	6.39	106	6.00	2.20	
Total BTEX	<0.300	0.300	08/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/05/2016	ND	400	100	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	08/04/2016	ND	197	98.5	200	5.03	
DRO >C10-C28	<10.0	10.0	08/04/2016	ND	202	101	200	9.04	
Surrogate: 1-Chlorooctane	80.8 9	35-147	7						
	79.9 9	6 28-171							

#### Sample ID: SP 4 (2.5') (H601737-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/05/2016	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Delivered by:	Keinquished by	They	Sampler Relinquished:		10										LAB I.D.		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name	(575) 394-3481	2100 Avenue C	Environ	
(	Sample	Time 3:37 mg	93-2 Time 1:30 pm	Date 8/3/16		0	9	8	7	6 SP4 (2.5')	5 SP4 (2')	4 SP4 (1.5')	3 SP4 (1')	2 SP4 (6")	1 SP4 (Surface)	SAMPLE I.D.		ame Heri Gaytan		UL- K Sec. 10, T21S,	NEDU 503W	Y Apache	x# 575-394-3481 / 575-394-2601	Eunice New Mexico 88231		nager Daniel Dominguez		FAX: (575) 394-2601	2100 Avenue O, Eunice, NM 88231	<b>Environmental Plus, Inc.</b>	
	Sample Cool & Intact Yes No	Recei		Received						ດ	G	G	G	G	G	(G)RAB OR (C)OM	NP.						394-	0 882			s, Inc.	2	PC		
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Page 8 of 8

ATTACHMENT IV Copy of Initial NMOCD Form C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexic **RECEIVED**

Energy Minerals and Natural By JKeyes at 3:01 pm, Jul 28, 2016

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

Submit i Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action** Final Report **OPERATOR** Initial Report Contact Bruce Baker Name of Company: Apache Corporation Address: 2350 W Marland Blvd Hobbs, NM 88240 Telephone No. (432) 631-6982 Facility Name NEDU 503W Facility Type: Injection Well Mineral Owner API No. 30-025-06473 Surface Owner State LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line County Range Unit Letter Section Township 10 21S 37E 2080' FSL 2080' FWL Lea K Latitude N32,4918556 Longitude W103,1526871 NATURE OF RELEASE Volume of Release 65 barrels of Volume Recovered 60 barrels of Type of Release: produced water produced water produced water Date and Hour of Discovery Source of Release: Fiberglass Line Date and Hour of Occurrence 6/30/2016 at 7:00 a.m. 6/30/2016 If YES, To Whom? Was Immediate Notice Given? Yes No Not Required Jamie Keyes (NMOCD) Date and Hour 6/30/2016 at 4:09 p.m. via email. By Whom? Bruce Baker If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? Yes X No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* The 2 inch fiberglass line came unglued tying in at main trunk line. The line was isolated and a vacuum truck was dispatched to pick-up standing fluid. The line has been repaired. Describe Area Affected and Cleanup Action Taken.\* Majority of the release was contained at the junction box except for a small volume overfilled running down the lease road and impacted a small area of pasture on the ROW. The site has been mapped and samples collected. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. **OIL CONSERVATION DIVISION** Bruce Berler Signature: Jam Huger Approved by Environmental Specialist; Printed Name: Bruce Baker 09/28/2016 Approval Date: 07/28/2016 **Expiration Date:** Title: Environmental Technician Conditions of Approval: E-mail Address: larry.baker@apachecorp.com Attached Discrete samples only. Delineate and remediate per 1RP 4371 Phone: (432) 631-6982 Date: 7/28/2016 NMOCD guidelines. nJXK1621053945

Attach Additional Sheets If Necessary

pJXK1621054027