

ENVIRONMENTAL PLUS, INC.

2100 Ave 'O'
P.O. Box 1558
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ddominguezepi@gmail.com
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Site Characterization and Work Plan

**Vanguard
Aspen 32 State Com #1 Tank Battery
Eddy County, New Mexico
Unit Letter "J", Section 32, Township 17 South, Range 28 East
Latitude 32.787839 North, Longitude 104.194645 West
NMOCD Reference# 2RP-3196**

Prepared For:

Vanguard Operating, LLC
4001 Penbrook, Suite 201
Odessa, Texas 79762

Prepared By:

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

August 2017

A handwritten signature in black ink, appearing to read 'Daniel Dominguez', is written over a horizontal line.

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 J (NW ¼ SE ¼), Section 32, Township 17 South, Range 28 East, approximately thirteen miles east of Artesia, in Eddy County, New Mexico. The property is owned by the State of New Mexico.

The release site is located in the pasture off an active tank battery; latitude 32.78743 North, longitude 104.19457 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 indicates a discharge line located in the secondary containment at SWD facility developed a pinhole size leak. The pump was immediately shut-in, and the discharge line was replaced with a new line. A vacuum truck was immediately brought to the facility, standing fluids were recovered. The affected area is in the secondary containment surrounding the stock tanks at SWD facility. The area directly behind the battery was impacted by over spray from the release. This area was measured to be 5'-10" W x 60' L. Before the release and at the time of the release heavy rains occurred in the area, rain water being pooled inside the secondary containment at the facility and in low spots outside the containment. The visually stained area totals approximately 11,000 square feet. The Initial NMOCD Form C-141 is included as Attachment IV.

NMOCD Site Classification:

A search for water wells was completed utilizing the USGS and New Mexico Office of the State Engineer's (NMOSE) websites. There is one USGS well located in the area surrounding the release site (reference *Table I*). 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 USGS database indicates average water depth as approximately 108 feet below ground surface (bgs) within a 1,760-meter radius (reference *Table I*). The NMOSE database located a domestic well at 3,144 meters with an indicated depth to water of 95 feet bgs, however, this is too great a distance to accurately determine depth to water for this location (reference *Attachment II*).

Utilizing this information, the NMOCD guidelines indicate the Aspen 32 State Com #1 Battery release site to have a ranking score of zero. Based on this score, the NMOCD Recommended Remedial Action Levels (RRALs) for delineation at this Site were determined as follows: Benzene – 10 mg/Kg, BTEX – 50 mg/Kg, TPH – 5,000 mg/Kg, and Chloride – 600 mg/Kg.

The visually stained area totals an area of approximately 11,000 square feet. The area is rocky topsoil approximately 6 inches to one foot thick atop caliche.

Delineation Progress:

On July 18-19, 2017 EPI personnel mobilized on site to collect soil samples to determine the vertical extent of contamination. A total of thirty soil samples were collected from eight sample locations; SP1 – SP8. Two soil samples from each sample location were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate that other than chlorides above NMOCD RRALs at SP3 surface level, the release area is void of Benzene, BTEX, TPH,

and Chloride concentrations above NMOCD RRALs (reference *Figure 3* and *Table 2*).

On July 21, 2017 EPI personnel were on site to collect soil samples to determine the horizontal extent of contamination. A total of six samples were collected from three sample locations; SP9 – SP11. All six samples were sent to Cardinal labs for testing. Laboratory analytical results indicate that the areas adjacent to the release area, horizontally, are void of Benzene, BTEX, TPH, and Chloride concentrations more than NMOCD RRALs (reference *Figure 3* and *Table 2*).

Portions of select soil samples were field tested for organic vapors and chloride concentrations. Soil samples collected for field testing of organic vapors were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. Field testing of organic vapors utilized a Mini-Rae™ Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) calibrated for benzene response. Chloride concentrations were determined via use of a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses were collected into laboratory provided glass containers, labeled and inserted into self-sealing polyethylene bags, placed in a cooler, chilled and transported to an independent laboratory for quantification of contaminant concentrations under Chain-of-Custody protocol.

Proposed Actions:

Considering depth to water, field testing, laboratory analytical data, the number of poly-lines trans versing the location, and the natural re-vegetation of the release area, EPI proposes to not disturb the release area other than to excavate the area around SP3 to approximately one-foot bgs. As SP3 is located on the caliche pad, the excavation will be backfilled with clean caliche. Contaminated soil will be hauled to a state approved disposal facility. Backfill will be free of deleterious material or rocks or large clumps and will continue until the excavation is closed. Upon completion of backfill activities, the area will be contoured to blend with existing pad area and protected against wind/water erosion.

Revegetation Plan:

In an attempt to achieve native plant cover and diversity levels equal to or exceeding the natural potential levels in undisturbed soils adjacent to the release area, the pasture area will be seeded with BLM mixture #2 at a rate of 22 lbs per acre. Seed will be applied to the area via hand dispersal as soon as backfill activities are complete. After seeding has been completed the area will be thoroughly watered. After a period of three months the area will be examined for vegetative growth and re-seeded if no growth has occurred.

Noxious Weed Management Plan:

In an effort to prevent the spread of noxious weeds such as African Rue, Siberian Elm, Jointed Goatgrass, Russian Olive, Camelthorn, Saltcedar, Starthistle varieties, Hoary Cress and Russian Knapweed, the area will be confirmed to be clear of any noxious weeds. If any are located they will be removed by hand and the area treated with an appropriate herbicide. After a period of three months the area will be examined for noxious weed growth and re-treated if any growth has occurred.

Following completion of NMOCD and NMSLO approved Proposed Actions, EPI will provide a detailed *Final Closure Report* to Vanguard, NMOCD, and NMSLO personnel. Vanguard and EPI personnel would welcome an opportunity to briefly discuss the *Work Plan* at your earliest convenience.

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. Chuck Johnston at (432) 202-4771 or via e-mail at cjohnston@vnrlc.com. All official communication should be addressed to:

Mr. Chuck Johnston
Vanguard
4001 Penbrook, Suite 2001
Odessa, Texas 79762

Sincerely,

ENVIRONMENTAL PLUS, INC.



Daniel Dominguez
Environmental Consultant

cc: Mike Bratcher, Environmental Specialist – NMOCD District 2, Hobbs, NM
Amber Groves, Remediation Specialist – NMSLO, Hobbs, NM
Chuck Johnston, EHS – Vanguard
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

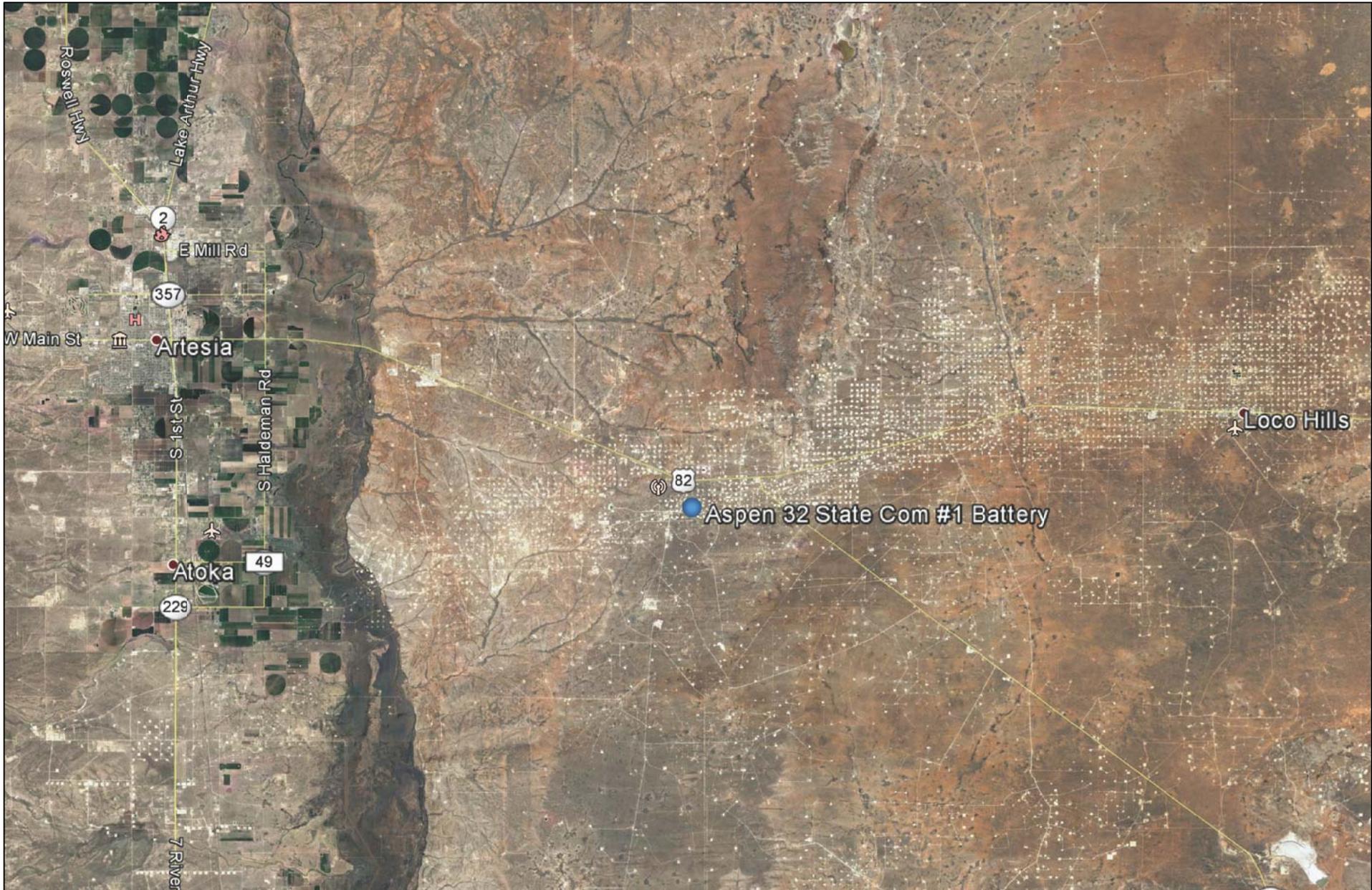
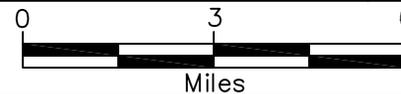


Figure 1
 Area Map
 Vanguard
 Aspen 32 State Com #1 Battery

Eddy County, New Mexico
 NW 1/4 of SE 1/4, Sec. 32, T17S, R28E
 N 32° 47' 16.22" W 104° 11' 40.72"
 Elevation: 3,680 feet amsl

DWG By: D Dominguez
 August 2017

REVISED:



SHEET
 1 of 1

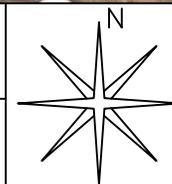


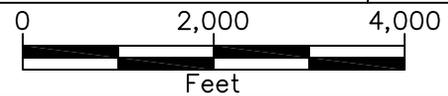


Figure 2
 Site Location Map
 Vanguard
 Aspen 32 State Com #1 Battery

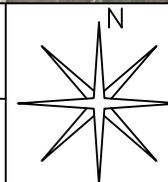
Eddy County, New Mexico
 NW 1/4 of SE 1/4, Sec. 32, T17S, R28E
 N 32° 47' 16.22" W 104° 11' 40.72"
 Elevation: 3,680 feet amsl

DWG By: D Dominguez
 August 2017

REVISED:



SHEET
 1 of 1





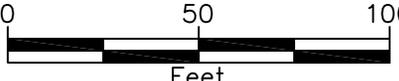
LEGEND

- ✕SP1 Sample Location
-  Release Area (~11,000 sq.ft.)

Figure 3
 Site/Sample Map
 Vanguard
 Aspen 32 State Com #1 Battery

Eddy County, New Mexico
 NW 1/4 of SE 1/4, Sec. 32, T17S, R28E
 N 32° 47' 16.22" W 104° 11' 40.72"
 Elevation: 3,680 feet amsl

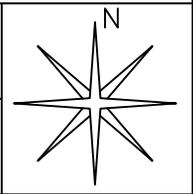
DWG By: D Dominguez
 August 2017



0 50 100
 Feet

REVISED:

SHEET
 1 of 1



TABLES

TABLE 1

Well Data

Vanguard - Aspen 32 State Com #1 Tank Battery

Ref #	Well Number	Use	Diversion ^A	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Distance ^B	Date Measured	Surface Elevation ^C	Depth to Water
																(ft bgs)
1	USGS 1				1	3	1	4	18S	28E	576221	3627006	1,319	09-Mar-94	3,656	108
2	RA 11857 POD1	DOL	3	ALVARO VERDUGO	1	1	2	5	18S	26E	577784	3625988	3,144	01-Oct-12	3,657	95

Data obtained from the New Mexico Office of the State Engineer and USGS Websites

^A = In acre feet per annum

^B = In meters

^C = Elevation interpolated from Google Earth based on referenced location.

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

DOL = 72-12-1 Domestic and Livestock watering

-- = Data not provided on the NM iwaters website

Shaded area indicates wells not shown in Figure 2

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Vanguard
Aspen 32 State Com #1 Tank Battery

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C36 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	In-Situ	18-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
	3	In-Situ	18-Jul-17	0.0	400	--	--	--	--	--	--	--	--	--	--
	4	In-Situ	18-Jul-17	0.0	560	--	--	--	--	--	--	--	--	--	--
	6	In-Situ	18-Jul-17	0.0	640	--	--	--	--	--	--	--	--	--	--
	10	In-Situ	18-Jul-17	0.0	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	112
SP2	Surface	In-Situ	18-Jul-17	0.0	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	512
	2	In-Situ	18-Jul-17	0.0	400	--	--	--	--	--	--	--	--	--	--
	4	In-Situ	18-Jul-17	0.0	1,760	--	--	--	--	--	--	--	--	--	--
	6	In-Situ	18-Jul-17	0.0	320	--	--	--	--	--	--	--	--	--	--
	10	In-Situ	18-Jul-17	0.0	240	--	--	--	--	--	--	--	--	--	--
	14	In-Situ	18-Jul-17	0.0	80	<0.050	<0.050	0.060	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
SP3	Surface	In-Situ	18-Jul-17	0.0	>4,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	9,600
	2	In-Situ	18-Jul-17	0.0	560	--	--	--	--	--	--	--	--	--	--
	4	In-Situ	18-Jul-17	0.0	240	--	--	--	--	--	--	--	--	--	--
	6	In-Situ	18-Jul-17	0.0	320	--	--	--	--	--	--	--	--	--	--
	10	In-Situ	18-Jul-17	0.0	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
SP4	Surface	In-Situ	18-Jul-17	0.0	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	112
	1	In-Situ	18-Jul-17	0.0	80	<0.050	<0.050	0.060	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
SP5	Surface	In-Situ	19-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	4	In-Situ	19-Jul-17	0.0	80	--	--	--	--	--	--	--	--	--	--
	6	In-Situ	19-Jul-17	0.0	80	<0.050	<0.050	0.060	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Vanguard
Aspen 32 State Com #1 Tank Battery

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C36 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP6	Surface	In-Situ	19-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	4	In-Situ	19-Jul-17	0.0	160	--	--	--	--	--	--	--	--	--	--
	6	In-Situ	19-Jul-17	0.0	160	--	--	--	--	--	--	--	--	--	--
	10	In-Situ	19-Jul-17	0.0	80	<0.050	<0.050	0.060	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP7	Surface	In-Situ	19-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	4	In-Situ	19-Jul-17	0.0	80	--	--	--	--	--	--	--	--	--	--
	6	In-Situ	19-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
SP8	Surface	In-Situ	19-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	4	In-Situ	19-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
SP9	Surface	In-Situ	21-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	1	In-Situ	21-Jul-17	0.0	80	<0.050	<0.050	0.060	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
SP10	Surface	In-Situ	21-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	1	In-Situ	21-Jul-17	0.0	80	<0.050	<0.050	0.060	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP11	Surface	In-Situ	21-Jul-17	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	1	In-Situ	21-Jul-17	0.0	80	<0.050	<0.050	0.060	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
NMOCD Recommended Remedial Action Levels				100		10				50				5,000	600

-- = Not Analyzed

Bold values are in excess of NMOCD Recommended Remedial Action Levels

ATTACHMENTS

ATTACHMENT I
Photographs



Photograph #1- Lease sign



Photograph #2- Looking across release area



Photograph #3- Looking across release area



Photograph #4- Looking across release area



Photograph #5- Looking across release area



Photograph #6- 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)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 11857 POD1			ED	1	1	2	05	18S	26E	577784	3625988	3144	235	95	140

Average Depth to Water: **95 feet**
 Minimum Depth: **95 feet**
 Maximum Depth: **95 feet**

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 575413.45

Northing (Y): 3628054.2

Radius: 3500

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 27, 2017

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

RE: ASPEN 32 STATE COM #1

Enclosed are the results of analyses for samples received by the laboratory on 07/24/17 15:45.

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2017	Sampling Date:	07/18/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 1 (SURFACE) (H701922-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88		
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85		
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63		
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21		
Total BTEX	<0.300	0.300	07/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	48.0	16.0	07/25/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93		
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52		
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND						

Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 120 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2017	Sampling Date:	07/18/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 1 (10') (H701922-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	112	16.0	07/25/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 77.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.7 % 34.7-157

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Analytical Results For:

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

Received:	07/24/2017	Sampling Date:	07/18/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 2 (SURFACE) (H701922-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	512	16.0	07/25/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 111 % 28.3-164

Surrogate: 1-Chlorooctadecane 114 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/18/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 2 (14') (H701922-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/25/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/18/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 3 (SURFACE) (H701922-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88		
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85		
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63		
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21		
Total BTEX	<0.300	0.300	07/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	9600	16.0	07/25/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93		
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52		
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND						

Surrogate: 1-Chlorooctane 97.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 107 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/18/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 3 (10') (H701922-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	64.0	16.0	07/25/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 90.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.8 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/18/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 4 (SURFACE) (H701922-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 96.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/18/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 4 (1') (H701922-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 89.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.5 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/19/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 5 (SURFACE) (H701922-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	32.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 115 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/19/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 5 (6') (H701922-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 109 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/19/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 6 (SURFACE) (H701922-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	32.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 108 % 34.7-157

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Analytical Results For:

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

Received:	07/24/2017	Sampling Date:	07/19/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 6 (10') (H701922-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	32.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 90.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.6 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/19/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 7 (SURFACE) (H701922-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 116 % 28.3-164

Surrogate: 1-Chlorooctadecane 126 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/19/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 7 (6') (H701922-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/25/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/25/2017	ND					

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 113 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/19/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 8 (SURFACE) (H701922-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88		
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85		
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63		
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21		
Total BTEX	<0.300	0.300	07/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/25/2017	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/26/2017	ND	207	104	200	1.93		
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	218	109	200	3.52		
EXT DRO >C28-C36	<10.0	10.0	07/26/2017	ND						

Surrogate: 1-Chlorooctane 99.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/19/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 8 (4') (H701922-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/26/2017	ND					

Surrogate: 1-Chlorooctane 84.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.4 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/21/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 9 (SURFACE) (H701922-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	32.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/26/2017	ND					

Surrogate: 1-Chlorooctane 93.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/21/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 9 (1') (H701922-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	48.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/26/2017	ND					

Surrogate: 1-Chlorooctane 99.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Received:	07/24/2017	Sampling Date:	07/21/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 10 (SURFACE) (H701922-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88	
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85	
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63	
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21	
Total BTEX	<0.300	0.300	07/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	32.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	207	104	200	1.93	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	218	109	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	07/26/2017	ND					

Surrogate: 1-Chlorooctane 98.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

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Analytical Results For:

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

Received:	07/24/2017	Sampling Date:	07/21/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 10 (1') (H701922-20)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2017	ND	1.87	93.6	2.00	4.88		
Toluene*	<0.050	0.050	07/25/2017	ND	1.73	86.5	2.00	4.85		
Ethylbenzene*	<0.050	0.050	07/25/2017	ND	1.77	88.3	2.00	6.63		
Total Xylenes*	<0.150	0.150	07/25/2017	ND	5.38	89.7	6.00	6.21		
Total BTEX	<0.300	0.300	07/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	07/25/2017	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/26/2017	ND	207	104	200	1.93		
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	218	109	200	3.52		
EXT DRO >C28-C36	<10.0	10.0	07/26/2017	ND						

Surrogate: 1-Chlorooctane 100 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

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Analytical Results For:

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

Received:	07/24/2017	Sampling Date:	07/21/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 11 (SURFACE) (H701922-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTEX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	32.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	206	103	200	6.49	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	213	107	200	8.22	
EXT DRO >C28-C36	<10.0	10.0	07/26/2017	ND					

Surrogate: 1-Chlorooctane 94.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2017	Sampling Date:	07/21/2017
Reported:	07/27/2017	Sampling Type:	Soil
Project Name:	ASPEN 32 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	VANGUARD- UL- J SEC. 32, T17S, R28E		

Sample ID: SP 11 (1') (H701922-22)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2017	ND	2.15	107	2.00	0.414	
Toluene*	<0.050	0.050	07/26/2017	ND	2.01	101	2.00	1.38	
Ethylbenzene*	<0.050	0.050	07/26/2017	ND	2.07	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	07/26/2017	ND	6.23	104	6.00	0.372	
Total BTEX	<0.300	0.300	07/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	48.0	16.0	07/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	206	103	200	6.49	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	213	107	200	8.22	
EXT DRO >C28-C36	<10.0	10.0	07/26/2017	ND					

Surrogate: 1-Chlorooctane 92.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.5 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Bill To

ANALYSIS REQUEST

LAB Cardinal

Chain of Custody Form



Attn: Daniel Dominguez
 P.O. Box 1558
 Eunice, NM 88231

Company Name: Environmental Plus, Inc.
 EPI Project Manager: Daniel Dominguez
 Mailing Address: P.O. BOX 1558
 City, State, Zip: Eunice New Mexico 88231
 EPI Phone#/Fax#: 575-394-3481 / 575-394-2601
 Client Company: Vanguard
 Facility Name: Aspen 32 State Com #1
 Location: UL - J Sec. 32, T17S, R28E
 Project Reference: [Blank]
 EPI Sampler Name: Dustin Crockett

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING		BTEX 8021B	TPH 8015M Ext.	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE		ICE/COOL	OTHER								
H101922	21 SP11 (Surface)	G	1			X					X										
	22 SP11 (1')	G	1			X					X										
	23																				
	24																				
	25																				
	26																				
	27																				
	28																				
	29																				
	30																				

Sampler Relinquished: [Signature]
 Relinquished by: [Signature]
 Date: 7-24-17
 Time: 6:00 am
 Received By: [Signature]
 Date: 7-24-17
 Time: 3:45
 Received By: [Signature]
 Sample Cool & Intact: Yes
 Checked By: [Signature]

E-mail results to: ddominguezepi@gmail.com & johnston@vntl.com
 & bbooneepi@gmail.com

NOTES:

Corrected -7.35%

ATTACHMENT IV
Copy of Initial NMOCD Form C-141

NM OIL CONSERVATION

ARTESIA DISTRICT

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 Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

AUG 7 2015

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1522340416 OPERATOR Initial Report Final Report

Name of Company LRE Operating, LLC <u>381994</u>	Contact Mike Barrett
Address 720 East College Blvd, Roswell, New Mexico 88210	Telephone No. 575-623-8738
Facility Name Aspen 32 State Com. No. 1	

Surface Owner State	Mineral Owner State	API No. 30-015-34148
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	32	17S	28E	1370'	FSL	1609'	FEL	EDDY

Latitude 32.78743 Longitude 104.19457

NATURE OF RELEASE

Type of Release Produced waters	Volume of Release 24 bbls	Volume Recovered 21 bbls
Source of Release Discharge line	Date and Hour of Occurrence 7/28/2015 2:30pm	Date and Hour of Discovery 7/28/2015 2:30am
Was Immediate Notice Given? Yes No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A discharge line located in the secondary containment at SWD facility developed a pinhole size leak, the pump was immediately shut-in, and the discharge line was replaced with a new line. Lease personal were at and offsite location when the release occurred, a vacuum truck was immediately brought to the facility, standing fluids were recovered.

Describe Area Affected and Cleanup Action Taken.*
The affected area is located in the secondary containment surrounding the stock tanks at SWD facility. The area directly behind the battery was impacted by over spray from the release. This area was measured to be 5'-10'' W x 60' L. Before the release and at the time of the release heavy rains occurred in the area, rain water being pooled inside the secondary containment at the facility and in low spots outside the containment. R.T. Hicks Consultants has been contracted on construction of a Remediation plan for the Aspen 32 State Com. No.1 release.

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.

AMENDED	OIL CONSERVATION DIVISION	
Signature: 	Signed By 	
Printed Name: Michael Barrett	Approved by Environmental Specialist:	
Title: Production Supervisor	Approval Date: <u>8/11/15</u>	Expiration Date: <u>NIA</u>
E-mail Address: Michael Barrett <mbarrett@limerockresources.com>	Conditions of Approval: Attached <input type="checkbox"/>	

Date: 8/7/2015 Phone: 575-623-8424

* Attach Additional Sheets If Necessary

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 9/11/15

2RP-3196