APPROVED

By Olivia Yu at 3:16 pm, Apr 09, 2018

NMOCD approves of the proposed additional delineation for 1RP-4575, 1RP-4641, and 1RP-4764 with one modification: delineation must include the tank battery area identified in the July 2017 report.

1RP-4575, 1RP-4641, 1RP-4764 DELINEATION PLAN Rainer State #1 Produced Water and Crude Oil Spills Lea County, New Mexico

Latitude: N33° 25′ 18.74″ Longitude: W-103° 09′ 22.8″

LAI Project No. 17-0175-41

February 22, 2018

Prepared for: Legacy Reserves Operating, LP 303 West Wall Street, Suite 1300 Midland, Texas 79701

Prepared by: Larson & Associates, Inc. 507 North Marienfeld Street, Suite 205 Midland, Texas 79701

Mark J. Larson, P.G. Certified Professional Geologist #10490

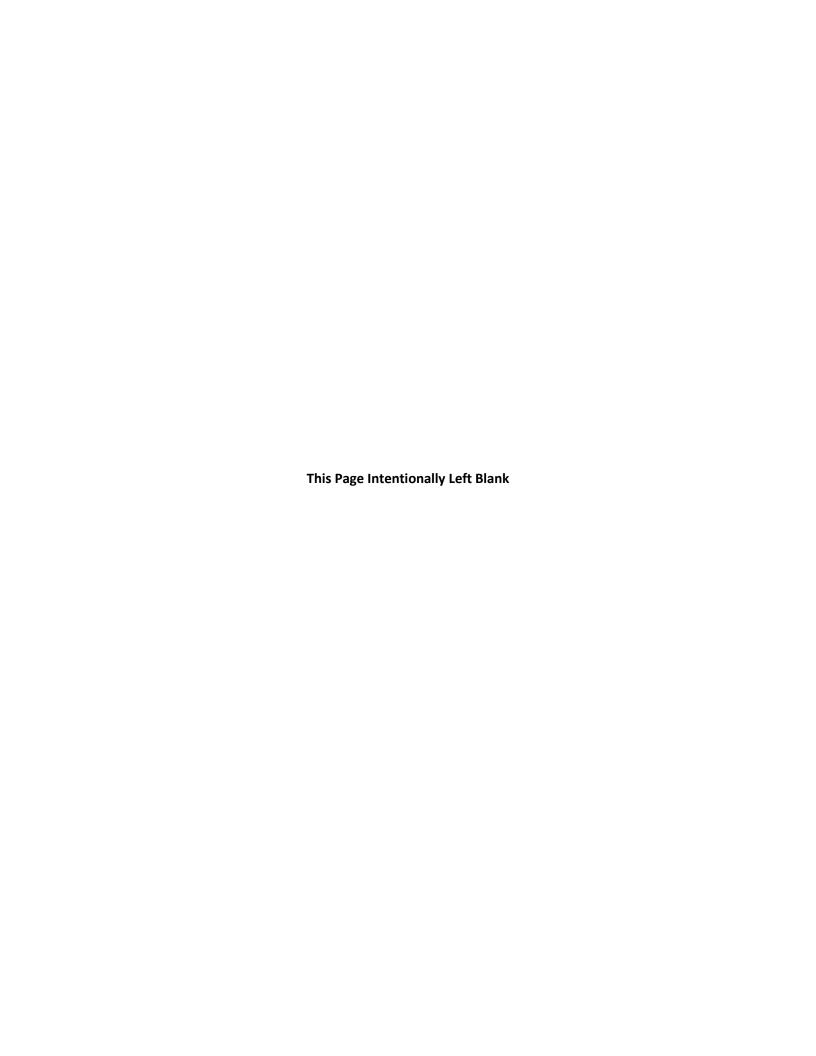


Table of Contents

1.0 INTRODUCTION	1
1.1 Background	1
1.2 Physical Setting	
1.3 Remediation Action Levels	
2.0 PRELIMINARY DELINEATION	2
3.0 DELINEATION PLAN	2
4.0 REMEDIATION PLAN	2

Figures

Figure 1 Topographic Map

Figure 2 Aerial Map Showing Proposed Sample Points

Appendices

Appendix A Initial C-141
Appendix B EPI Work Plan
Appendix C Photographs

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this delineation plan on behalf of Legacy Reserves Operating, LP (Legacy) for submittal to the New Mexico Oil Conservation (OCD) District I for three (3) spills, including two (2) produced water spills and a crude oil spill, at the Rainer State #1 (Site) located in Unit B (NW/4, NE/4), Section 28, Township 10 South, Range 37 East in Lea County, New Mexico. The geodetic position is North 33° 25′ 18.74″ and West -103° 09′ 22.88″. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The first spill occurred on January 20, 2017, due to equipment failure in the heater, releasing approximately 287 barrels (bbl) of crude oil and produced water. Approximately 260 bbl were recovered. The first spill occurred on the caliche pad and flowed into the pasture to the north. The first spill measures approximately 13,700 square feet. The sill was reported on January 20, 2017 (verbal communication with Mark Whitaker). The initial C-141 was submitted on January 24, 2017 and assigned remediation permit number 1RP-4575. Appendix A presents the initial C-141 for 1RP-4575.

The second spill occurred on February 23, 2017, due to equipment failure in the heater causing the tanks to overflow and release approximately 100 bbl of produced water. Approximately 90 bbl were recovered. The release was contained within the firewall. The initial C-141 was submitted on March 10, 2017 and assigned remediation permit number 1RP-4641. Appendix A presents the initial C-141 for 1RP-4641.

The third spill occurred on July 4, 2017 due to equipment failure in the heater treater releasing approximately 160 bbl of crude oil and produced water. Approximately 140 bbl were recovered. The spill occurred inside the firewall and pooled in the pasture to the north. The initial C-141 was submitted on July 20, 2017 and assigned remediation permit number 1RP-4764. Appendix A presents the initial C-141 for 1RP-4764.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,950 feet above mean sea level (msl);
- The surface topography slopes gently towards the southeast;
- There are no surface water features within 1,000 feet of the site;
- The soils are designated as "Portales and Gomez fine sandy loams, 0 to 3 percent slope", consisting of 0 to 8 inches of fine sandy loam underlain by 8 to 60 inches of clay loam;
- The surface geology is the Ogallala Formation (lower Pliocene to middle Miocene)- Alluvial and eolian deposits, and petrocalcic soils of the southern High Plains region;
- Groundwater occurs in the Ogallala formation at approximately 112 feet below ground surface (bgs) (1981);
- According to the State of New Mexico Office of the State Engineer (OSE) and U.S. Geological Survey (USGS) the nearest freshwater well is located in Unit J (NW/4, SE/4), Section 21, Township 10 South, Range 37 East, approximately 0.60 miles north of the Site.

1.3 Recommended Remediation Action Levels

Recommended remediation action levels (RRAL) were calculated for benzene, BTEX and TPH based on the following criteria established by the OCD in "Guidelines for Remediation of Leaks, Spills and Releases, pp. 6-7, August 13, 1993":

Criteria	Result	Score
Depth-to-Groundwater	>100 Feet	0
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1,000 Horizontal Feet	0

0

The following RRAL apply to the release ranking score:

Benzene 10 mg/Kg
 BTEX 50 mg/Kg
 TPH 5,000 mg/Kg

Depth to groundwater greater than 100 feet bgs requires vertical delineation for chloride to 600 milligrams per kilogram (mg/Kg) and maintained to a minimum 5 feet farther in depth.

2.0 PRELIMINARY DELINEATION

On February 3 through 10 of 2017, Environmental Plus, Inc. (EPI) collected soil samples at eight (8) locations (SP1 through SP8) in the pasture north of the tank battery. Ground surface samples were collected at each location and at 12 feet bgs at SP4, SP5, SP6 and SP7, 16 feet bgs at SP2 and SP8, 19 feet bgs at SP3 and 20 feet bgs at SP1. The samples were delivered to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico and analyzed for BTEX, gasoline range organics (GRO), diesel range organics (DRO) and chloride by EPA SW-846 Methods 8021B, 8015M and titration method SM4500 CL-B. BTEX reported below the RRAL limit (50 mg/Kg) for all samples. GRO and DRO were reported above the RRAL for TPH (5,000 mg/Kg) at SP1, surface (24,774 m/Kg) and SP6, surface (22,190 m/Kg).

On February 13, 2017, EPI collected soil samples at four (4) locations (north, south, east and west) of the spill area. The samples were collected at ground surface and 4 feet bgs and delivered to Cardinal which analyzed the samples for BTEX, TPH (GRO and DRO) and chloride by EPA SW-846 Methods 8021B, 8015M and titration method SM4500 CL-B. All samples reported below the RRAL for BTEX, TPH (GRO and DRO) and below the delineation limit for chloride.

On April 3 - 5, 2017, EPI collected soil samples at three (3) locations (SP-1 through SP-3) inside the firewall and three locations (SP-4 through SP-6), south, east and west of the firewall. The samples were collected at ground surface, and 4 feet bgs (SP-4, SP5 and SP-6), 10 feet bgs (SP-1), 26 feet bgs (SP-2) and 30 feet bgs (SP-3). The samples were delivered to Cardinal and analyzed for BTEX, TPH (GRO and DRO) and chloride by EPA SW-846 Methods 8021B, 8015M and titration method SM4500 CL-B. All samples reported below the RRAL for BTEX and TPH. Chloride concentrations were reported above the delineation limit (600 mg/Kg) at SP-2, surface, (27,600 mg/Kg) and at SP-3, surface, (20,000 mg/Kg). Appendix B presents the EPI data.

1RP-4575, 1RP-4641 & 1RP-4764 Delineation Plan Rainer State #1 February 22, 2018

3.0 DELINEATION PLAN

LAI proposes to delineate 1RP-4575, 1RP-4641 and 1RP-4767 simultaneously. LAI proposes to collect soil samples at four (4) locations in the spill area in the pasture north of the battery and three (3) locations inside the containment. The samples will be collected at 1 foot intervals to approximately 4 feet bgs and 2 foot intervals to approximately 12 feet bgs using direct push technology (DPT) or a stainless steel hand auger depending on access for DPT and subsurface conditions. Additional samples will be collected in each cardinal direction (north, south, east and west) of the north and south ends of the battery at the same depth intervals for horizontal delineation. The soil samples will be delivered under chain of custody and preservation to Xenco Laboratories (Xenco) in Midland, Texas, BTEX, TPH, including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO) and chloride by EPA SW-846 Methods 8021B, 8015M and 300 respectively. Pending laboratory results, further delineation may be determined to reach cleanup level standards. Figure 2 presents a site map showing proposed soil sample locations. Appendix C presents photographs.

4.0 REMEDIAITON PLAN

Legacy will include a remediation plan in the delineation report to be submitted to the OCD upon receipt of the laboratory report.

Figures

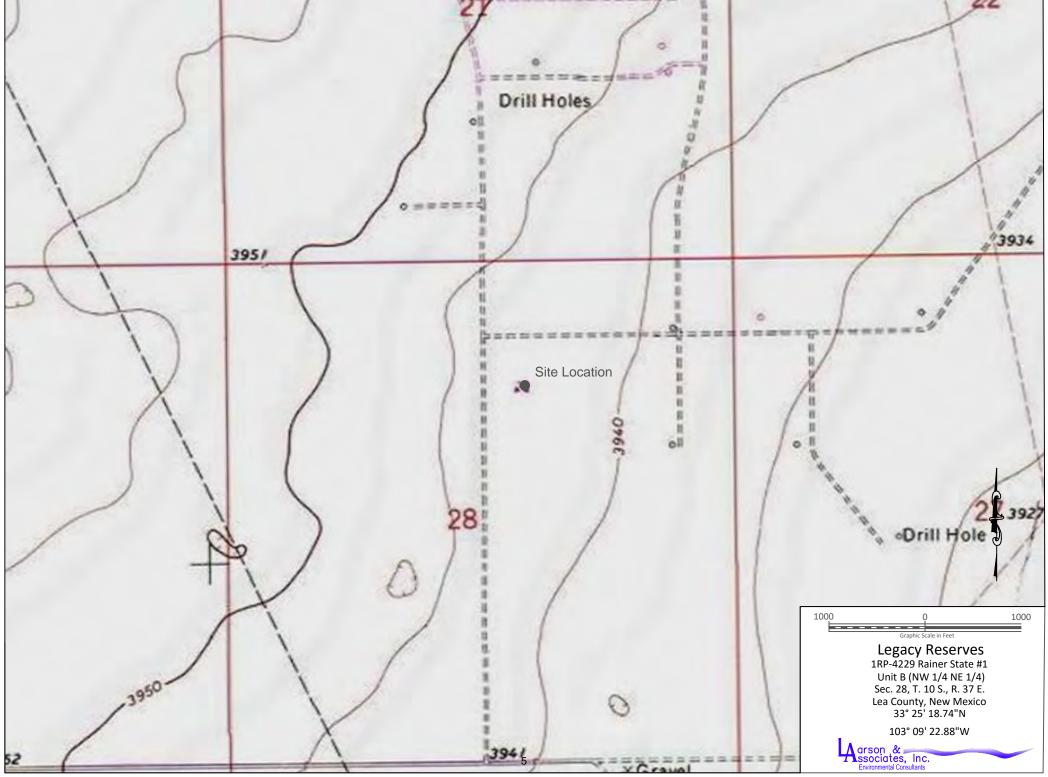


Figure 1 - Topographic Map

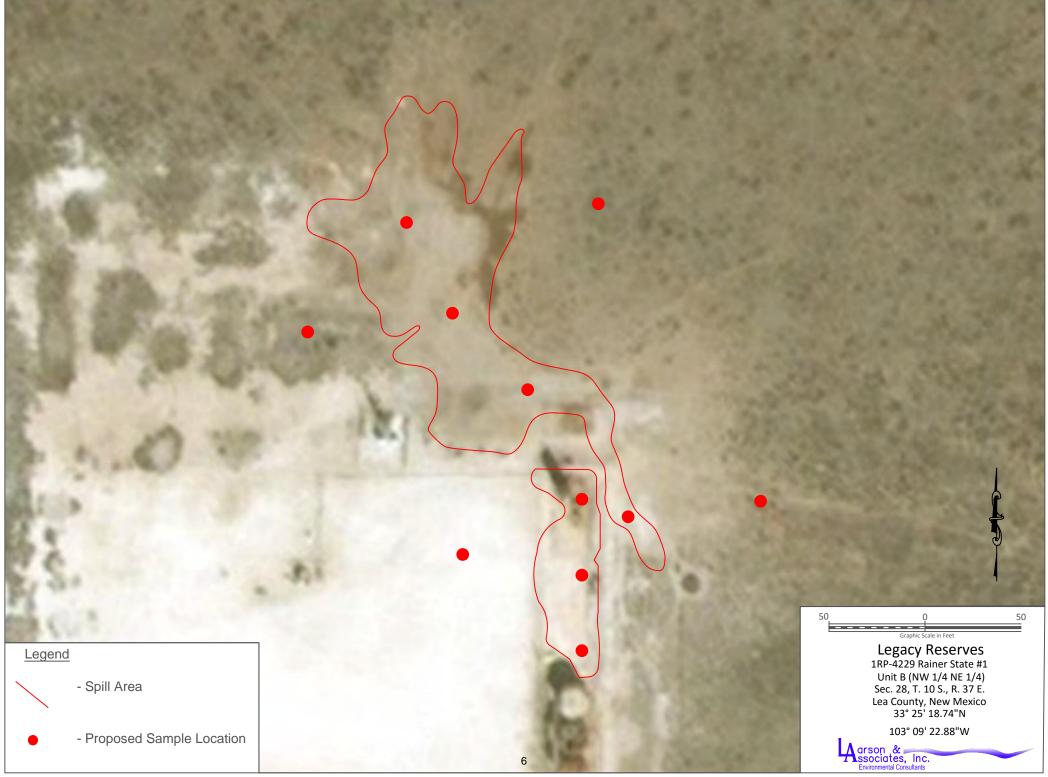


Figure 2 - Aerial Map and Proposed Soil Sample Location

Appendix A Initial 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 Mexico Energy Minerals and Natural Resources

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

pOY1703727861

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

Form C-141

Revised August 8, 2011

				- 111		RATOR		Ini	tial Report	Final Report
Name of Co	ompany: Le	egacy, L.P.					anuel Soriano			
Address: P.	O. Box 108	848, Midlan	d, Texas	79702			No. 432-269-88	06		
Facility Na	me: Rainer	State #1				Facility Typ	e: Battery			
Surface Ow	ner: State			Mineral C)wner:				API No.	30-025-34125
				LOCATIO	ONO	FRELEA	SE			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/\	West Line	County
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17 1	-t-Ni-c	Canada				1-20-17 @ If YES, To			1-20-17 @	з риз
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Operator/Responsible Party,

The OCD has received the form C-141 you provided on _01/20/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4575_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _03/06/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us 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

Revised August 8, 2011

Form C-141

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

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

					OPER	RATOR		∠ Ini	tial Report	Final Report
Name of Co	mpany: Leg	gacy, L.P.					nuel Soriano			
3-3-1-1-1	O. Box 1084		d, Texas	79702			No. 432-269-880	06		
Facility Nar	ne: Rainer S	State #1				Facility Typ	e: Battery			
Surface Ow	ner: State			Mineral C	Owner:				API No.	30-025-34125
				LOCATION	ON O	FRELEA	SE			
Unit Letter B	Section 28	Township 10S	Range 37E	Feet from the		South Line	Feet from the	East/\	West Line	County Lea
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nOY1707239776

1RP-4641

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _3/13/2017__ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4641_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _4/13/2017__. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us 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 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

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pOY1720743524

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _7/20/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4764__ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _8/26/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

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- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Appendix B EPI Work Plan

ENVIRONMENTAL PLUS, INC.

2100 Ave 'O' P.O. Box 1558 Eunice, NM 88231 ddominguezepi@gmail.com Office: (575) 394-3481 Fax: (575) 394-2601



Site Characterization and Work Plan

Legacy, L.P.
Rainer State #1
Lea County, New Mexico
Unit Letter "B", Section 28, Township 10 South, Range 37 East
Latitude 32.421819 North, Longitude 103.156819 West
NMOCD Reference # 1RP-4575
NMOCD Reference # 1RP-4641
NMOCD Reference # 1RP-4764

Prepared For:

Legacy, L.P. P.O. Box 10848 Midland, Texas 79702

Prepared By:

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

July 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 B (NW ¼ NE ¼), Section 28, Township 10 South, Range 37 East, approximately fourteen miles north-east of Tatum, in Lea County, New Mexico. The property is owned by the State of New Mexico.

The release site is located on an active tank battery pad; latitude 33.421819 North, longitude 103.156819 West. Area Map, Site Location Map, and Sample/Site Map are included as Figure 1, Figure 2, and Figure 3, respectively. The Initial NMOCD Forms C-141 indicate the first release occurred on January 20, 2017 when approximately 287 barrels of produced water and oil were released when a heater failed releasing the fluid to lease pad and pasture. A vacuum truck was dispatched to the site and recovered approximately 260 barrels, resulting in a net loss of 17 barrels. The visually stained area covers approximately 13,700 square feet of pad and pasture. The second release occurred on February 23, 2017 when a heater failed causing the tanks to overflow. Approximately 100 bbls of produced water were released to the caliche lined containment area. A vacuum truck was dispatched to the site and recovered approximately 90 bbls, resulting in a net loss of 10 barrels. The third release occurred on July 4, 2017 when approximately 160 barrels of produced water and oil were released when a heater failed releasing the fluid to lease pad and pasture. A vacuum truck was dispatched to the site and recovered approximately 140 barrels, resulting in a net loss of 20 barrels. The Initial NMOCD Forms C-141 are 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 no 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 located no wells in the area to determine average depth to water, however, the Chevron Trend Map (2005) indicates average water depth is approximately 115 feet below ground surface (bgs) (reference *Attachment II*).

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

The fluid spread out off the caliche to the north approximately 100' into pasture area consisting of approximately six inches to one foot of topsoil atop hard caliche. The fluid also spread out on the caliche pad to the south approximately 100'. The second release was contained within the bermed containment. The third release impacted the same area as the first release (reference *Figure 3*).



Delineation Progress:

From February 3-10, 2017 EPI personnel mobilized on site to collect soil samples to determine the vertical extent of contamination. A total of forty-four soil samples were collected from eight sample locations; SP1 – SP8. Sixteen representative samples, two from each sample location, were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate elevated TPH and/or Chlorides at the surface at SP1 – SP8, however, at sample location TD, the release area is void of Benzene, BTEX, TPH, and Chloride concentrations more than NMOCD RRALs. Field testing indicates elevated Chlorides between surface and eight to twelve feet bgs (reference *Figure 3* and *Table 2*).

On February 13, 2017 EPI personnel collected soil samples to determine the horizontal extent of contamination. A total of eight soil samples were collected from four sample locations; North, East, South, and West. All samples, two from each sample location, were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate that Benzene, BTEX, TPH, and Chloride concentrations in the area adjacent to the release area, horizontally, are below NMOCD RRALs (reference *Figure 3* and *Table 2*).

On April 3 and 4, 2017 EPI personnel mobilized on site to collect soil samples from the second release area to determine the vertical extent of contamination. A total of nineteen soil samples were collected from three sample locations; SP1 – SP3. Six representative samples, two from each sample location, were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate elevated Chlorides at the surface at SP2 and SP3, however, at sample location TD, the release area is void of Benzene, BTEX, TPH, and Chloride concentrations more than NMOCD RRALs. Field testing indicates elevated Chlorides between surface and eighteen to twenty-six feet bgs (reference *Figure 3* and *Table 3*).

On April 5, 2017 EPI personnel collected soil samples from the second release area to determine the horizontal extent of contamination. A total of six soil samples were collected from three sample locations; SP4 – SP6. All samples, two from each sample location, were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate that Benzene, BTEX, TPH, and Chloride concentrations in the area adjacent to the release area, horizontally, are below NMOCD RRALs (reference *Figure 3* and *Table 3*).

Samples were not collected after the third release as it occurred within the same area as the first release and will be remediated in conjunction with the first release.

Proposed Actions:

Taking into consideration the releases occurred at an active tank battery, EPI proposes to excavate the first release area to three feet bgs, with all contaminated soil hauled to a state approved disposal facility. At the conclusion of excavation activities, a twenty-mil poly-ethylene liner will be installed over the areas of SP3 and SP5. Bottom and sidewall confirmation samples will also be collected and analyzed. If laboratory analytical results are below NMOCD RRALs the pasture area excavation will be backfilled with three feet of select top soil, while the pad area excavation will be backfilled with caliche, to finish grade. If analytical results are above RRALs the process will be repeated until acceptable levels are achieved.



The second release area, being within the bermed containment of the tank battery, will be excavated approximately six inches, taking extreme care to not comprise the stability of the tanks or process equipment. All contaminated soil will be hauled to a state approved disposal facility. The excavated area will then be backfilled with caliche, to finish grade. The berms around the tanks will also be removed during excavation activities and replaced with clean caliche.

Top soil, and caliche will be free of deleterious material or rocks or large clumps. 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 tank battery pad and pasture area and protected against wind/water erosion. The disturbed pasture area will also be seeded and watered.

It is requested that any further remediation of the second release area within the bermed tank battery be deferred until the location is taken out of service. At that time, a more thorough delineation and remediation of the area will be conducted.

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 disturbed pasture area will be seeded with BLM mixture #2 at a rate of 22 lbs per acre. Seed will be applied to the area utilizing a drill seeder in late spring 2017 when ground conditions are more conducive to vegetative growth. After drill seeding has been competed 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. Applied seed mix will contain no primary or secondary noxious weeds and will either be certified or registered seed. After a period of three months the area will be examined for noxious weed growth and retreated if any growth has occurred.

Following completion of NMOCD and NMSLO approved Proposed Actions, EPI will provide a detailed *Final Closure Report* to Legacy, L.P., NMOCD, and NMSLO personnel. Legacy, L.P. 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. Manuel Soriano at (432) 269-8806 or via e-mail at jsoriano@legacylp.com. All official communication should be addressed to:

Mr. Manuel Soriano Legacy, L.P. P.O. Box 10848 Midalnd, TX 79702

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez

Environmental Consultant

cc: Olivia Yu, Environmental Specialist – NMOCD District 1, Hobbs Amber Groves, Remediation Specialist – NMSLO, Hobbs, NM Manuel Soriano, Production Foreman – Legacy, L.P. 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 Release Area 1

Table 3 – Summary of Soil Sample Field Testing and Laboratory Analytical Results Release Area 2

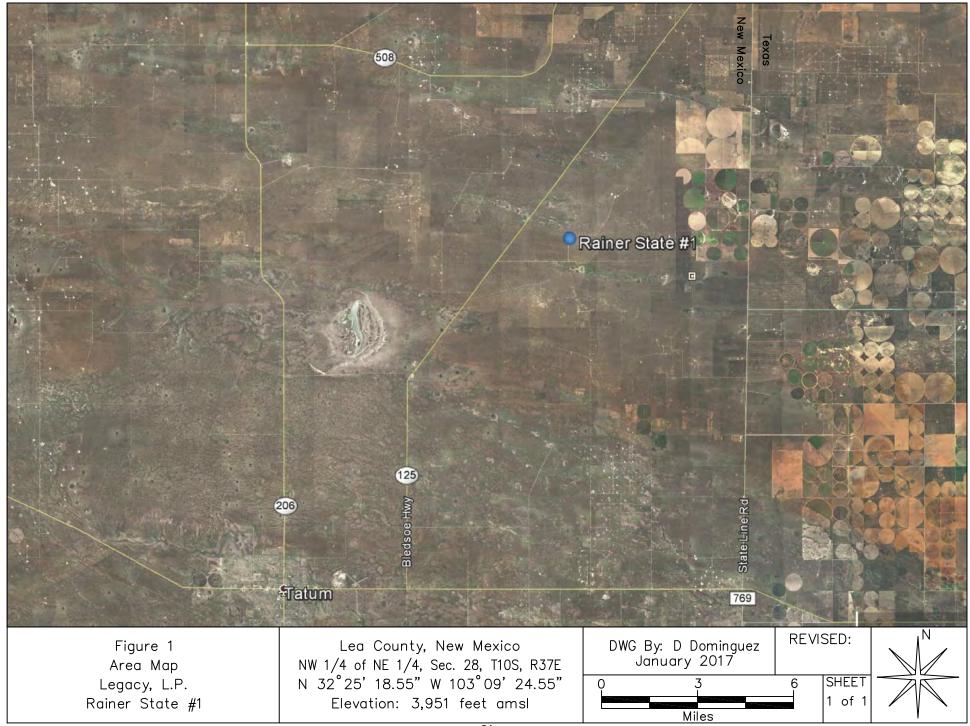
Attachment I – Photographs

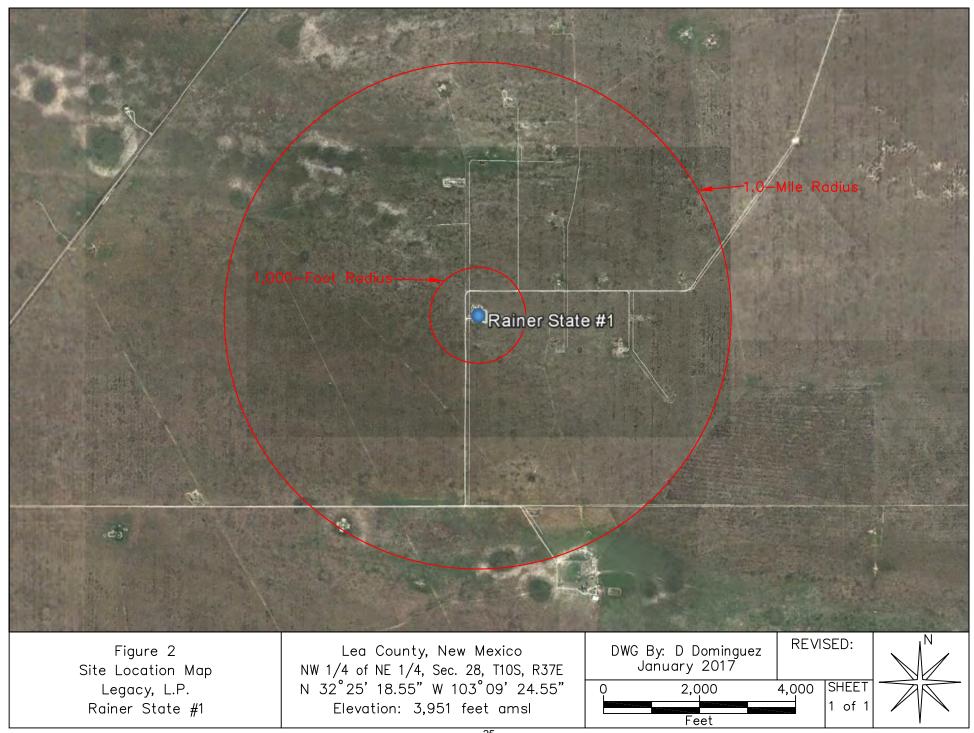
Attachment II – NMOSE Average Depth to Groundwater

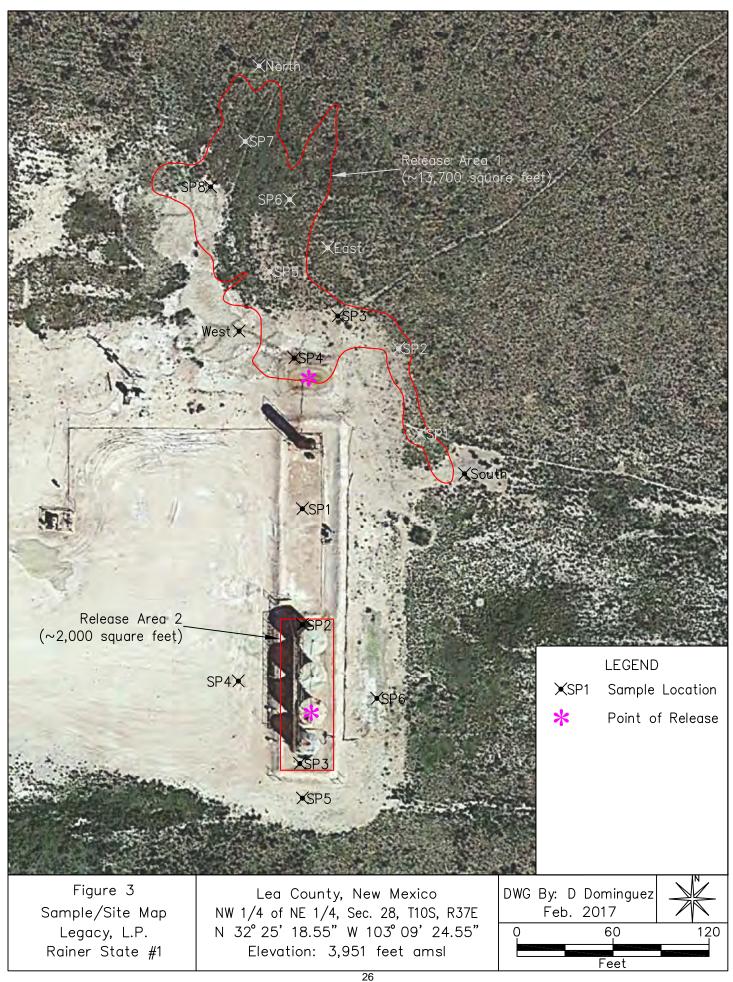
Attachment III – Laboratory Analytical Results

Attachment IV – Copy of Initial NMOCD Forms C-141

FIGURES







TABLES

TABLE 1

Well Data

Legacy, L.P. - Rainer State #1

Ref#	Ref# Well Number Use Dive		Diversion ^A	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Distance ^B	Date Measured	Surface Elevation ^C	Depth to Water
																(ft bgs)
				No POD's Found												

^{* =} 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 satellite map based on referenced location. quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

^{-- =} Data not provided on the NM iwaters website

TABLE 2 Summary of Soil Sample Field Testing and Laboratory Analytical Results Legacy, L.P.

Rainer State #1 - Release 1

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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
	Surface	In-Situ	03-Feb-17	2.9	1,600	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	97.0	97.0	2,080
	2	In-Situ	03-Feb-17	2.1	560									
	4	In-Situ	03-Feb-17	0.0	640									
	6	In-Situ	03-Feb-17	0.0	450	-1-	-1	-	-1	-1	1	-1-	-	
SP1	8	In-Situ	03-Feb-17	0.0	400	-	1	1	1	-	1	-	1	
	10	In-Situ	03-Feb-17	0.0	240									
	12	In-Situ	03-Feb-17	0.0	320									
	16	In-Situ	03-Feb-17	0.0	240									
	20	In-Situ	03-Feb-17	0.0	80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	16
	Surface	In-Situ	06-Feb-17	137.0	400	< 0.050	< 0.050	< 0.050	1.76	1.76	374	24,400	24,774	384
	2	In-Situ	06-Feb-17	5.2	400	-	1	1	1	1	1	-	1	
	4	In-Situ	06-Feb-17	3.1	400	-	1	1	1	1	1	-	1	
SP2	6	In-Situ	06-Feb-17	3.5	320	-	1	1	1	1	1	-	1	
SF 2	8	In-Situ	06-Feb-17	2.4	400									
	10	In-Situ	06-Feb-17	0.0	880									
	12	In-Situ	06-Feb-17	0.0	880								-	
	16	In-Situ	06-Feb-17	0.0	240	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	192

TABLE 2 Summary of Soil Sample Field Testing and Laboratory Analytical Results Legacy, L.P.

Rainer State #1 - Release 1

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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
	Surface	In-Situ	07-Feb-17	826.0	4,000	< 0.050	0.678	< 0.050	5.42	6.09	510	4,460	4,970	6,800
	4	In-Situ	07-Feb-17	194.0	2,130									
SP3	8	In-Situ	07-Feb-17	31.6	1,600									
SF3	12	In-Situ	07-Feb-17	12.1	160									
	16	In-Situ	07-Feb-17	40.4	480									
	19	In-Situ	07-Feb-17	1.8	160	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	13.0	13.0	160
	Surface	In-Situ	08-Feb-17	8	4,000	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	31.4	31.4	10,700
SP4	4	In-Situ	08-Feb-17	0.0	400									
514	8	In-Situ	08-Feb-17	0.0	400									
	12	In-Situ	08-Feb-17	0.0	400	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	384
	Surface	In-Situ	09-Feb-17	11	4,000	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	4,380	4,380	34,000
CD5	4	In-Situ	09-Feb-17	2.5	1,360									
SP5	8	In-Situ	09-Feb-17	2.4	2,400									
	12	In-Situ	09-Feb-17	0.9	400	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	320
	Surface	In-Situ	09-Feb-17	220	4,000	< 0.050	< 0.050	< 0.050	3.50	3.50	590	21,600	22,190	32
SD(4	In-Situ	09-Feb-17	11.3	80									
SP6	8	In-Situ	09-Feb-17	4.9	80									
	12	In-Situ	09-Feb-17	0.0	80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	48

TABLE 2 Summary of Soil Sample Field Testing and Laboratory Analytical Results Legacy, L.P.

Rainer State #1 - Release 1

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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
	Surface	In-Situ	10-Feb-17	0	3,760	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	4,930
SP7	4	In-Situ	10-Feb-17	0.7	80									
SP/	8	In-Situ	10-Feb-17	0.5	480									
	12	In-Situ	10-Feb-17	0.9	80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	64
	Surface	In-Situ	10-Feb-17	1	3,680	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	4,260
	4	In-Situ	10-Feb-17	3.5	400									
SP8	8	In-Situ	10-Feb-17	2.0	400									
	12	In-Situ	10-Feb-17	2.8	240									
	16	In-Situ	10-Feb-17	1.4	80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	96
North	Surface	In-Situ	13-Feb-17		80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	32
North	4	In-Situ	13-Feb-17		80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	64
East	Surface	In-Situ	13-Feb-17		80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	<16.0
East	4	In-Situ	13-Feb-17		80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	32
C 41-	Surface	In-Situ	13-Feb-17		80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	16
South	4	In-Situ	13-Feb-17		80	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<20.0	32
West	Surface	In-Situ	13-Feb-17		80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	16
west	4	In-Situ	13-Feb-17		80	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<20.0	32
NMOCD		ended Reme Levels	edial Action	100		10				50			5,000	600

-- = Not Analyzed

Bold values are in excess of NMOCD Recommended Remedial Action Levels

TABLE 3 Summary of Soil Sample Field Testing and Laboratory Analytical Results Legacy, L.P.

Rainer State #1 - Release 2

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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
	Surface	In-Situ	04-Apr-17	0.0	40	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	144
SP1	3	In-Situ	04-Apr-17	0.0	80									
SFI	6	In-Situ	04-Apr-17	0.0	160									
	10	In-Situ	04-Apr-17	0.0	160	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	80
	Surface	In-Situ	03-Apr-17	8.3	4,000	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	27,600
	3	In-Situ	03-Apr-17	88.3	4,000									
	6	In-Situ	03-Apr-17	9.5	3,200									
SP2	14	In-Situ	03-Apr-17	0.0	560									
	18	In-Situ	03-Apr-17	0.0	400									
	22	In-Situ	03-Apr-17	0.0	240									
	26	In-Situ	03-Apr-17	0.0	240	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	192
	Surface	In-Situ	04-Apr-17	826.0	4,000	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	1,430	1,430	20,000
	3	In-Situ	04-Apr-17	194.0	4,000									
	6	In-Situ	04-Apr-17	31.6	2,560									
SP3	14	In-Situ	04-Apr-17	12.1	2,080									
513	18	In-Situ	04-Apr-17	40.4	1,040									
	22	In-Situ	04-Apr-17	1.8	880									
	26	In-Situ	04-Apr-17	8	400									
	30	In-Situ	04-Apr-17	0.0	80	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	112

TABLE 3
Summary of Soil Sample Field Testing and Laboratory Analytical Results Legacy, L.P.

Rainer State #1 - Release 2

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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP4	Surface	In-Situ	05-Apr-17	0.0	160	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	240
514	4	In-Situ	05-Apr-17	0.0	80	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	96
SP5	Surface	In-Situ	05-Apr-17	0.0	160	< 0.025	0.284	0.170	0.932	1.39	<10.0	<10.0	<20.0	80
51.5	4	In-Situ	05-Apr-17	0.0	80	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	32
SP6	Surface	In-Situ	05-Apr-17	0.0	160	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	128
510	4	In-Situ	05-Apr-17	0.0	160	< 0.025	< 0.025	< 0.025	< 0.075	< 0.150	<10.0	<10.0	<20.0	224
NMOCD		ended Reme Levels	dial Action	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- Point of release



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.



Photograph #7- Looking across second release area.



Photograph #8- Looking across second release area.



Photograph #9- Looking across second release area.



Photograph #10- Looking across second release area.

ATTACHMENT II NMOSE Average Depth to Groundwater



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

NI.		f
I/I/O	records	talina
110	1 C C C I G G	TOULIU.

UTMNAD83 Radius Search (in meters):

Easting (X): 671370 **Northing (Y):** 3699570 **Radius:** 2000

ATTACHMENT III Laboratory Analytical Results



February 17, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: RAINER STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/13/17 15:41.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/03/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name:RAINER STATE #1Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP1 (SURFACE) (H700368-01)

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	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	97.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	78.2	% 35-147	7						
Surrogate: 1-Chlorooctadecane	101 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/06/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP1 (20') (H700368-02)

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	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.6-14	0						
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	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	80.1 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	88.2 9	% 28-171							

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Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/06/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP2 (SURFACE) (H700368-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.200	0.200	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.200	0.200	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	1.76	0.600	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	1.76	1.20	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	374	50.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	24400	50.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	138	% 35-147	7						
Surrogate: 1-Chlorooctadecane	265	% 28-171	,						

Surrogate: 1-Chlorooctadecane 265 % 28-171

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Received: 02/13/2017 Sampling Date: 02/07/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP2 (16') (H700368-04)

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	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	88.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	94.0	% 28-171							

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Received: 02/13/2017 Sampling Date: 02/07/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

192 %

28-171

Sample ID: SP3 (SURFACE) (H700368-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	0.678	0.200	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.200	0.200	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	5.42	0.600	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	6.09	1.20	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	510	50.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	4460	50.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	156 %	6 35-147	7						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



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Received: 02/13/2017 Sampling Date: 02/08/2017

Reported: 02/17/2017 Sampling Type: Soil Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact

Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP3 (19') (H700368-06)

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	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	201	101	200	9.90	
DRO >C10-C28	13.0	10.0	02/16/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	83.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	86.7	% 28-171							

Surrogate: 1-Chlorooctadecane 86.7 % 28-171

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Received: 02/13/2017 Sampling Date: 02/08/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP4 (SURFACE) (H700368-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	201	101	200	9.90	
DRO >C10-C28	31.4	10.0	02/16/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	89.7 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 %	6 28-171							

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Received: 02/13/2017 Sampling Date: 02/08/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP4 (12') (H700368-08)

TEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	94.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.5	% 28-171							

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Received: 02/13/2017 Sampling Date: 02/09/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: NONE GIVEN

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP5 (SURFACE) (H700368-09)

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	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/16/2017	ND	201	101	200	9.90	
DRO >C10-C28	4380	50.0	02/16/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	81.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	170	% 28-171							

170 % Surrogate: 1-Chlorooctadecane 28-171

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Received: 02/13/2017 Sampling Date: 02/09/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name:RAINER STATE #1Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP5 (12') (H700368-10)

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	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	96.2 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	106 %	6 28-171							

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Received: 02/13/2017 Sampling Date: 02/09/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP6 (SURFACE) (H700368-11)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.200	0.200	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.200	0.200	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	3.50	0.600	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	3.50	1.20	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	590	50.0	02/16/2017	ND	201	101	200	9.90	
DRO >C10-C28	21600	50.0	02/16/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	177 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	265 %	6 28-171							

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/09/2017

Reported: 02/17/2017 Sampling Type: Soil
Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP6 (12') (H700368-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	90.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	100 %	6 28-171							

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Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/10/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP7 (SURFACE) (H700368-13)

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	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4930	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	102 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	113 9	% 28-171	,						

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/10/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP7 (12') (H700368-14)

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	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	< 0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	< 0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	186	93.2	200	2.60	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	201	101	200	1.45	
Surrogate: 1-Chlorooctane	85.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	104 %	6 28-171							

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02/10/2017



Analytical Results For:

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

Received: 02/13/2017 Sampling Date:

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP8 (SURFACE) (H700368-15)

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	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4260	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	186	93.2	200	2.60	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	201	101	200	1.45	
Surrogate: 1-Chlorooctane	78.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.2	% 28-171							

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/10/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP8 (16') (H700368-16)

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	02/16/2017	ND	2.01	100	2.00	0.801	
Toluene*	<0.050	0.050	02/16/2017	ND	1.89	94.6	2.00	1.27	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.92	95.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.47	91.2	6.00	1.14	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	186	93.2	200	2.60	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	201	101	200	1.45	
Surrogate: 1-Chlorooctane	79.2 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	94.6	% 28-171							

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Notes and Definitions

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

matrix interference's.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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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Times Cooper	Date 2/13/17	SP5 (12')	SP5 (Surface)	SP4 (12')	SP4 (Surface)					SP1 (20')	SP1 (Surface)	SAMPLE I.D.		ne Dustin Crockett	Ö	UL-B Sec. 28, T10S,	Rainer State #1	Legacy LP	575-394-3481 / 575-394-2601	Eunice New Mexico 88231	P.O. BOX 1558		Environmental Plus, Inc.	FAX: (575) 394-2601	2100 Avenue O, Eunice, NM 88231
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Page 1 of 2

Page 19 of 20

Chain of Custody Form

Environmental Plus, Inc.

2400 Avenue O Eunice NM 88231	Environmental Plus,
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88231	Plus,
	Inc.
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P.O. Box 1	
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P.O. Box 1558, Eunice, NM 88231 Dominguez Domingu	Marrix Preserv. Sampling State #1 State #1 Attn: Daniel Dominguez	20 Sarupler Relinquished:	20		19	18	17	// 16 SP8 (16')	15	14	13		-	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 FAX:	2100 Avenue O, Eunice, NM 88231	EHVII OHIHEHLAH I IUS, IIIC
Received P.O. Box 1558, Eunice, NM 88231 P.O. Box 1558, Eunice, NM 8	R37E Attn: Daniel Dominguez P.O. Box 1558, Eunice, NM 88231 Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 ACIDI/BASE ACIDIANA ACIDI/BASE ACID	Time 6:00 am	Date 2/13/17					(16')	(Surface)	(12')	(Surface)	(12')	(Surface)	SAMPLE I.D.				UL-B Sec. 28, T10S,	Rainer State #1	Legacy LP	575-394-3481 / 575-3	Eunice New Mexico	P.O. BOX 1558	Daniel Dominguez	Environmental Plus	(575) 394-2601	e, NM 88231	Ital I may are
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February 17, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: RAINER STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/13/17 15:41.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/13/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: NORTH (SURFACE) (H700367-01)

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	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	181	90.7	200	0.745	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	198	98.8	200	2.04	
Surrogate: 1-Chlorooctane	70.5 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	83.1 9	6 28-171							

Cardinal Laboratories *=Accredited Analyte

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

Received: 02/13/2017 Sampling Date: 02/13/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: NORTH (4') (H700367-02)

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	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	80.1 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	90.4 9	% 28-171							

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/13/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: EAST (SURFACE) (H700367-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	110 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	114	% 28-171	,						

114 % Surrogate: 1-Chlorooctadecane 28-171

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/13/2017

Reported: 02/17/2017 Sampling Type: Soil
Project Name: RAINER STATE #1 Sampling Condition: Cool

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: EAST (4') (H700367-04)

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	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	84.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	95.9	% 28-171	•						

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/13/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SOUTH (SURFACE) (H700367-05)

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	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/17/2017	ND	448	112	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	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	90.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 9	% 28-171							

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/13/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SOUTH (4') (H700367-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	91.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 9	% 28-171							

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/13/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: WEST (SURFACE) (H700367-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	<0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	<0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	91.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	% 28-171							

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

Fax To: (505) 394-2601

Received: 02/13/2017 Sampling Date: 02/13/2017

Reported: 02/17/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: WEST (4') (H700367-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2017	ND	1.97	98.7	2.00	0.452	
Toluene*	< 0.050	0.050	02/16/2017	ND	1.85	92.7	2.00	0.785	
Ethylbenzene*	< 0.050	0.050	02/16/2017	ND	1.87	93.5	2.00	0.656	
Total Xylenes*	<0.150	0.150	02/16/2017	ND	5.32	88.6	6.00	0.697	
Total BTEX	<0.300	0.300	02/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2017	ND	201	101	200	9.90	
DRO >C10-C28	<10.0	10.0	02/15/2017	ND	219	110	200	6.81	
Surrogate: 1-Chlorooctane	79.0 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	86.8 9	% 28-171							

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Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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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2100 Avenue O, Eunice, NM 88231 (575) 394-3481 FAX: (575) 394-26 Company Name Environ	Eunice, NM 88231 FAX: (575) 394-2601 Environmental Plus,	P.O. Box 1558, Eunice, NM 88231	B	×	၂၂ ဗွ			j,		1 3		말	Bill To		-	-	- 2	ALYS		그리		ANALYSIS REQUEST
EPI Project Manager			. 1			П	-1	-1	- 1	-1	- 1	- 1			\dashv	\dashv	_					
Mailing Address	P.O. BOX 1558														_	_	_	_	_			
City, State, Zip	Eunice New Mexico 88231	882	31												_	_	_	_	_	_		
EPI Phone#/Fax#		94-2	260	$ \overline{} $							П	Ы			_	_	_	_	_	_		
Client Company		П	П	Ш	Ш					М	J				_		_	_	_			
Facility Name	Rainer State #1														_	_	_	_	_			
Location	UL-B Sec. 28, T10S,	R37E	m						A	3	Da	niel	Attn: Daniel Dominguez		_	_	_	_				
Project Reference	е									1_	P.O	B	P.O. Box 1558		_	_	_	_	_			
EPI Sampler Name	ne Dustin Crockett]				Г			ı	de		e,	M 8823	5	_	_	_	_				
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Sampler Relinquished:	Case 2/13/17 Received by Time 12:00 pm Date 2/13/17 Received by Time 3:4 Received by Time 3:4 Aum		Received by:		(lab staff						z:m	E-mail r	E-mail results to: ddominguezepi@gmail.com & jsoriano@legacylp.com NOTES:	guezepi@gn	ail.c	om o	jso	iano	<u>@</u>	gacy	p.c	on l



April 13, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: RAINER STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 04/06/17 15:50.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: 04/06/2017 Sampling Date: 04/04/2017

Reported: 04/13/2017 Sampling Type: Soil Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP1 (SURFACE) (H700921-01)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	101	% 90.4-11	1						
Surrogate: Toluene-d8	98.2	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	99.6	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/10/2017	ND	432	108	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	04/08/2017	ND	207	103	200	8.32	
DRO >C10-C28	<10.0	10.0	04/08/2017	ND	219	110	200	13.4	
Surrogate: 1-Chlorooctane	76.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.7	% 34.7-15	7						

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

Received: 04/06/2017 Sampling Date: 04/04/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: UL-B SEC.28,T10S, R37E

ma/ka

Sample ID: SP1 (10') (H700921-02)

RTFY 8260R

B1EX 8260B	mg,	/ kg	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	91.6	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	95.1	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/10/2017	ND	432	108	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	04/08/2017	ND	207	103	200	8.32	
DRO >C10-C28	<10.0	10.0	04/08/2017	ND	219	110	200	13.4	
Surrogate: 1-Chlorooctane	74.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	67.9	% 34.7-15	7						

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

Received: 04/06/2017 Sampling Date: 04/03/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP2 (SURFACE) (H700921-03)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	104	% 90.4-11	1						
Surrogate: Toluene-d8	92.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	92.3	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	04/10/2017	ND	432	108	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	04/08/2017	ND	207	103	200	8.32	
DRO >C10-C28	<10.0	10.0	04/08/2017	ND	219	110	200	13.4	
Surrogate: 1-Chlorooctane	89.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.7	% 34.7-15	7						

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

Received: 04/06/2017 Sampling Date: 04/03/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: UL-B SEC.28,T10S, R37E

ma/ka

Sample ID: SP2 (26') (H700921-04)

RTFY 8260R

B1EX 8260B	mg,	/ Kg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	97.5	% 90.4-11	1						
Surrogate: Toluene-d8	94.2	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	93.9	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/10/2017	ND	432	108	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	04/08/2017	ND	207	103	200	8.32	
DRO >C10-C28	<10.0	10.0	04/08/2017	ND	219	110	200	13.4	
Surrogate: 1-Chlorooctane	91.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.8	% 34.7-15	7						

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

Fax To: (505) 394-2601

Received: 04/06/2017 Sampling Date: 04/04/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP3 (SURFACE) (H700921-05)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	109	% 90.4-11	1						
Surrogate: Toluene-d8	98.5	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	97.5	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	04/10/2017	ND	432	108	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	04/10/2017	ND	197	98.6	200	7.04	
DRO >C10-C28	1430	10.0	04/10/2017	ND	216	108	200	2.70	
Surrogate: 1-Chlorooctane	82.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	101	% 34.7-15	7						

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

Received: 04/06/2017 Sampling Date: 04/04/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP3 (30') (H700921-06)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	95.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	89.7	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/10/2017	ND	432	108	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	04/08/2017	ND	207	103	200	8.32	
DRO >C10-C28	<10.0	10.0	04/08/2017	ND	219	110	200	13.4	
Surrogate: 1-Chlorooctane	88.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.4	% 34.7-15	7						

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Received: 04/06/2017 Sampling Date: 04/05/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP4 (SURFACE) (H700921-07)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	104	% 90.4-11	1						
Surrogate: Toluene-d8	95.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	94.4	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/10/2017	ND	416	104	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	04/08/2017	ND	207	103	200	8.32	
DRO >C10-C28	<10.0	10.0	04/08/2017	ND	219	110	200	13.4	
Surrogate: 1-Chlorooctane	72.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	69.0	% 34.7-15	7						

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Received: 04/06/2017 Sampling Date: 04/05/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP4 (4') (H700921-08)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	102	% 90.4-11	1						
Surrogate: Toluene-d8	98.2	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	95.9	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/10/2017	ND	416	104	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	04/08/2017	ND	207	103	200	8.32	
DRO >C10-C28	<10.0	10.0	04/08/2017	ND	219	110	200	13.4	
Surrogate: 1-Chlorooctane	90.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.7	% 34.7-15	7						

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Fax To: (505) 394-2601

Received: 04/06/2017 Sampling Date: 04/05/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP5 (SURFACE) (H700921-09)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	0.284	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	0.170	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	0.932	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	1.39	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	100	% 90.4-11	1						
Surrogate: Toluene-d8	97.3	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	94.1	% 80.1-12	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/10/2017	ND	416	104	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	04/10/2017	ND	207	104	200	4.30	
DRO >C10-C28	<10.0	10.0	04/10/2017	ND	219	109	200	3.12	
Surrogate: 1-Chlorooctane	86.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.9	% 34.7-15	7						

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Fax To: (505) 394-2601

Received: 04/06/2017 Sampling Date: 04/05/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP5 (4') (H700921-10)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	106	% 90.4-11	1						
Surrogate: Toluene-d8	95.6	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	94.9	% 80.1-12	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2017	ND	416	104	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	04/10/2017	ND	207	104	200	4.30	
DRO >C10-C28	<10.0	10.0	04/10/2017	ND	219	109	200	3.12	
Surrogate: 1-Chlorooctane	88.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	90.4	% 34.7-15	7						

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04/05/2017



Analytical Results For:

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

Received: 04/06/2017 Sampling Date:

Reported: 04/13/2017 Sampling Type: Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: UL-B SEC.28,T10S, R37E

Sample ID: SP6 (SURFACE) (H700921-11)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	112	% 90.4-11	1						
Surrogate: Toluene-d8	94.3	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	93.7	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/10/2017	ND	416	104	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	04/10/2017	ND	207	104	200	4.30	
DRO >C10-C28	<10.0	10.0	04/10/2017	ND	219	109	200	3.12	
Surrogate: 1-Chlorooctane	85.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.5	% 34.7-15	7						

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Environmental Plus, Inc.
Daniel Dominguez
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Eunice NM, 88231

Fax To: (505) 394-2601

 Received:
 04/06/2017
 Sampling Date:
 04/05/2017

 Reported:
 04/13/2017
 Sampling Type:
 Soil

Project Name: RAINER STATE #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: UL-B SEC.28,T10S, R37E

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Sample ID: SP6 (4') (H700921-12)

RTFY 8260R

B1EX 8260B	mg,	/ Kg	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	04/10/2017	ND	1.55	77.4	2.00	2.20	
Toluene*	<0.025	0.025	04/10/2017	ND	1.67	83.3	2.00	3.32	
Ethylbenzene*	<0.025	0.025	04/10/2017	ND	1.70	84.8	2.00	3.47	
Total Xylenes*	<0.075	0.075	04/10/2017	ND	5.32	88.6	6.00	4.27	
Total BTEX	<0.150	0.150	04/10/2017	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	95.2	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	96.3	% 80.1-12	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/10/2017	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/10/2017	ND	207	104	200	4.30	
DRO >C10-C28	<10.0	10.0	04/10/2017	ND	219	109	200	3.12	
Surrogate: 1-Chlorooctane	93.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.0	% 34.7-15	7						

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Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS OM-07 recovery. ND Analyte NOT DETECTED at or above the reporting limit Relative Percent Difference **RPD** 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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BIII To Sold Attn: Daniel Domir P.O. Box 1558 Eunice, NM 882 ACID/BASE	#WESTEWATER WASTEWATER WASTEWATER WASTEWATER P.O. Box 1558 Eunice, NM 882 CRUDE OIL SLUDGE OTHER: ACID/BASE ACID/BASE X X X X X X X X ICE/COOL OTHER O	Attn: Daniel Domir P.O. Box 1558 Eunice, NM 882 ACID/BASE ACID/	## CONTAINERS ## CON	## CONTAINERS Attn: Daniel Dominguez	Sempler Relinquished: Time 6:00 am Relinquished by: Time 4-6-17	10 SP5(4)	70F0 (0011000)	O SDE (Surface)		7 SP4 (Surface)	6 SP3 (30')	5 SP3 (Surface)	4 SP2 (26')	3 SP2 (Surface)	2 SP1 (10')	1 SP1 (Surface)	47100174	LAB I.D. SAMPLE I.D.		EPI Sampler Name Dustin Crockett	Project Reference	Location UL-B Sec. 28, T10S,	Facility Name Rainer State #1	Client Company Legacy LP	EPI Phone#/Fax# 575-394-3481 / 575-394-2601	City, State, Zip Eunice New Mexico 88231	Mailing Address P.O. BOX 1558	EPI Project Manager Daniel Dominguez	Company Name Environmental Plus, Inc.	(575) 394-3481 FAX: (575) 394-2607
GROUND WATER WASTEWATER WASTEWATER X X X X X X X X X X X X X X X X X X X	GROUND WATER WASTEWATER WASTEWATER WATRIX CRUDE OIL SLUDGE OTHER: ACID/BASE X X X X X X X X X X X X X X X X X X X	GROUND WATER WASTEWATER WASTEWATER Attn: Daniel Domir P.O. Box 1558 Eunice, NM 882 CRUDE OIL SLUDGE OTHER: ACID/BASE X X X X X X X ICE/COOL OTHER X X X X X X X X X X X X X X X X X X X	## Attn: Daniel Dominguez Attn: Daniel Dominguez	## Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 ## PRESERV. SAMPLING ** SOIL SLUDGE OTHER: ACID/BASE OTHER: X X O4-Apr-17 X X 03-Apr-17 X X 05-Apr-17 10:35 X X X X X X X X X X X X X X X X X X X	7 3	-	5	ଜ	G	G	G	G	G	G	ഒ	G	-					, R37			394-2	288		١	, Inc.	
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Chain of Custody Form

LAB Cardinal

Page 16 of 16

EPI Project Manager Company Name

Mailing Address

EPI Phone#/Fax# City, State, Zip

Legacy LP

Rainer State #1

UL-B Sec. 28, T10S, R37E

Project Reference

EPI Sampler Name

Dustin Crockett

LAB I.D.

SAMPLE I.D.

(G)RAB OR (C)OMP.

12

SP6 (4')

G 9

11 SP6 (Surface)

Delivered by:

No Sample Cool & Intact

necked By:

19 18 17 16 15 14

20

Date 4/6/17

Time 6:00 am

Received By: (lab str

NOTES

Facility Name Client Company

ocation

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

Environmental Plus, Inc.

Daniel Dominguez

P.O. BOX 1558

Eunice New Mexico 88231

Environmental Plus, Inc.

P.O. Box 1558, Eunice, NM 88231

575-394-3481 / 575-394-2601 # CONTAINERS GROUND WATER WASTEWATER MATRIX SOIL × CRUDE OIL SLUDGE Attn: Daniel Dominguez OTHER: Eunice, NM 88231 PRESERV. ACID/BASE P.O. Box 1558 ICE/COOL E-mail results to: ddominguezepi@gmail.com & jsoriano@legacylp.com Bill To OTHER 05-Apr-17 05-Apr-17 DATE SAMPLING 11:00 12:20 **BTEX 8021B TPH 8015M** CHLORIDES (CI') × ANALYSIS REQUEST SULFATES (SO4") pH TCLP OTHER >>> PAH

90

ATTACHMENT IV Copy of Initial NMOCD Forms 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 Mexico Energy Minerals and Natural Resources

Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

pOY1703727861

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

Form C-141

					OPE	RATOR		✓ Init.	ial Report	☐ Fina	al Report
Name of Co	ompany: Le	gacy, L.P.					anuel Soriano				
Address: P.	O. Box 108	48, Midlan	d, Texas	79702			No. 432-269-88)6			
	me: Rainer					Facility Typ	e: Battery				
Surface Ow	ner: State			Mineral C)wner:				API No.	30-025-341	25
				LOCATIO	ONO	FRELEA	SE				
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/W	est Line	Co	unty
В	28	108	37E	1000	1.7202					I	ea
			Latitu	ide: N 33.42181	100 1	ongitude: W	103 156819°				
			Latitu			RELEAS					
Vine of Dale	ease: oil and	water	_	MATUR	E OI		Release: ~287 bl	ols	Volume R	ecovered: 260	bbls
	elease: heater						Hour of Occurrence			Hour of Discov	
oaree or ice	nease. neate					1-20-17 @	pm	A**	1-20-17 @		r 11-4
Vas Immedi	iate Notice G		Yes [No Not Re	eguired	If YES, To Mark Whit					
By Whom?	EPI						Hour: 1-20-17				
	course Reach	hed?	A	7.60		If YES, Vo	olume Impacting	he Water	rcourse:		
			Yes 🛛	No		Not Applie	eable				
escribe Ca	use of Proble	pacted, Descr	ibe Fully.*	* Not Applicable		R	ECEIVE I y Olivia Y	u at 7			
Describe Cau Release occu	use of Proble urred when a	em and Reme heater failed	ribe Fully.* dial Action . Approximate Action Take	* Not Applicable n Taken. * nately 287 bbls of	f oil and	d water were r	ECEIVELY Olivia Y	u at 7	260 bbls v	were recovered	i.
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District 1 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

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

Form C-141

Revised August 8, 2011

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

						RATOR		✓ Init	tial Report	final Report
Name of Co	mpany: Le	gacy, L.P.		15.102			anuel Soriano			
		48, Midlan	d, Texas	79702			No. 432-269-880)6		
acility Nar	ne: Rainer	State #1			-10	Facility Typ	e: Battery			
urface Ow	ner: State			Mineral O	wner:				API No	. 30-025-34125
				LOCATIO	ON O	FRELEA	SE			
Jnit Letter B	Section 28	Township 10S	Range 37E	Feet from the		South Line	Feet from the	East/V	Vest Line	County Lea
			Latitu	NATUR		ngitude: W				
vne of Rele	ase: produc	ed water		2.9.54.5.53			Release: ~100 bb	ols	Volume R	Recovered: ~90 bbls
	lease: heate					77.77	lour of Occurrence	e:		Hour of Discovery:
						2-23-17 @			2-23-17 (i) pm
as Immedi	ate Notice G	iven?	Yes 🛛	No Not Re	equired	If YES, To	Whom?			
By Whom?						Date and I-				
	course Reac		Yes 🗵	l No		If YES, Vo	olume Impacting to cable	he Wate	ercourse:	
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Describe Cau Release occu	use of Proble	pacted, Descr	ibe Fully.	* Not Applicable		R	ECEIVEI γ Olivia Υυ	ı at 1		nm, Mar 13, 20 sed and approximately 9
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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 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in

Form C-141

Conservation Division

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

		R	elease	Notification			ective Actio	n		
					OPE	RATOR		⊠ Ini	tial Report	Final Report
Name of Con							nuel Soriano			
		18, Midland	, Texas	79702			No. 432-269-880	06		
acility Nam	ne: Rainer S	State #1				Facility Typ	e: Battery			
urface Owr	ner: State			Mineral C)wner:				API No.	30-025-34125
				LOCATIO	ON C	F RELEA	SE			
Jnit Letter B	Section 28	Township 10S	Range 37E	Feet from the	North	n/South Line	Feet from the	East/\	West Line	County Lea
			Latitu	ide: N 33.42181						
				NATUR	E OF	RELEAS			T	1 140111
AL .	ase: oil and v						Release: ~160 bb			ecovered: ~140 bbls
ource of Rel	ease: heater	tailed				7-4-17 @ p	Iour of Occurrent	ce:	7-4-17 @ r	Iour of Discovery:
Vas Immedia	ate Notice Gi		Yes 🗵	No Not R	equired	If YES, To				
By Whom?						Date and F				
Vas a Watero	course Reach			-2.70° N			olume Impacting	the Wat	ercourse:	
		acted, Descri		* Not Applicable			CEIVED	at 11.	:02 am,	Jul 26, 2017
Describe Cau	ise of Probler	acted, Descri	be Fully.	* Not Applicable		REC By (CEIVED Olivia Yu a			
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Appendix C Photographs



Site Location



Site Prior to Remediation Viewing East



Site Prior to Remediation Viewing West



Site Prior to Remediation Viewing Southwest



Site Prior to Remediation Viewing North, September 14, 2017



Site Prior to Remediation Viewing East, September 14, 2017



Site Prior to Remediation Viewing South, September 14, 2017



Site Prior to Remediation, September 14, 2017



Site Prior to Remediation, September 14, 2017