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CONTROL STRUCTURE STRUCTURE ALLON

18 August 2008

Sherry Bonham Environmental Engineer New Mexico Oil Conservation Division 1301 West Grand Artesia, New Mexico 88210

RE: Remediation Proposal Exxon Mobil – Avalon TB Transfer Line UL-C (NE ¼ of the NW ¼) of Section 31, T 20 S, R 28 E Longitude: 32° 32' 5.22"; Latitude: 104° 13' 18.92" Eddy County, New Mexico EPI Ref. #190033

Dear Sherry Bonham:

On May 26, 2008 at an unknown time approximately 56-barrels of produced water were released from a tank battery flow line (2 7/8" dia.) when a leak developed due to internal corrosion. Zero (0) barrels of produced water were recovered. Fluids released impacted approximately 4,770 ft<sup>2</sup> of the surrounding terrain (reference *Figure #3*). NMOCD (M. Bratcher-Artesia) was notified of the release on May 26, 2008 at 8:30 am. This letter report documents results of delineation activities and provides a Remediation Proposal.

### Site Background

The Site is located in UL-C (NE ¼ of the NW ¼) of Section 31, T 20 S, R 28 E at an approximate elevation of 3,280 feet above mean sea level (amsl). The property is owned by the Department of the Interior and managed by the Bureau of Land Management (BLM). A search for water wells was completed utilizing the <u>New Mexico Office of the State Engineers</u> website and a database maintained by the United States Geological Survey (USGS). No wells (domestic, agriculture or public) or bodies of surface water exist within a 1,000 feet radius of the Site (reference *Figure 2*). Groundwater data indicates the average water depth is approximately 50 feet below ground surface (bgs). Based on available information, it was projected distance between impacted soil and groundwater is approximately 47 vertical feet. Utilizing this information, New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this Site were determined as follows:

Parameter	Remedial Goal
Benzene	10 parts per million
BTEX	50 parts per million
ТРН	100 parts per million

\*Chloride residuals may not be capable of impacting local groundwater above NMWQCC Standards of 250 mg/L



## Field Work

On May 26, 2008 EPI reacted to an Emergency Response and started preventative remediation activities on the release area. During the period of May 26-29, 2008 soil contaminated with produce water was blended with clean soil to solidify the material. Excavated material was placed on a plastic liner to prevent contamination of surrounding area. Approximately 120-cubic yards of impacted material were transported to Sundance Services, Inc., for disposal. EPI also performed site assessment, GPS survey and photographed the site on May 26, 2008. On May 27, 2008 three (3) soil samples were collected, field tested and remitted to an independent laboratory for analysis of chloride concentrations. Due to the nature of the release being produced water, no analyses were conducted for BTEX or TPH concentrations. Fourteen (14) soil samples were collected on May 28, 2008 and field tested for chlorides. A LaMotte Chloride Test Kit (Titration Method) was used for analyses of chloride concentrations. EPI and Straub Corporation mobilized at the Site on July 23, 2008 to direct the locale and depth of four (4) soil borings (i.e., SB-1, SB-2, SB-3 and SB-4; reference *Figure 4*). Soil samples collected at three (3), five (5) and ten (10) feet bgs were field tested and submitted to an independent laboratory for analyses of chloride concentrations.

Soil samples designated for laboratory analyses were immediately placed in laboratory provided containers, appropriately labeled, placed in ice and transported to either XENCO (ELT) Laboratory, Odessa, Texas or Cardinal Laboratory, Hobbs, New Mexico for quantification of chloride concentrations.

## **Analytical Data**

Field analysis of soil samples collected on May 27 and May 28, 2008 indicated chloride concentrations increased from north (pooling area) to south (release area). Except for two (2) locations (NSBTM-1 and NSBTM-2A) chloride concentrations were above NMOCD Remedial Threshold goals of 250 mg/Kg. As this phase of the project was for emergency response, soil samples were field tested to quantify areas of high chloride concentrations and remove the bulk of surficial contamination to prevent runoff (reference *Table 3*).

Field analysis of soil boring soil samples collected on July 23, 2008 indicated chloride concentrations decreased with depth. Laboratory analytical results indicated chloride concentrations ranged from 2,510 mg/kg (SB-1 @ 3-ft bgs) to 16.1 mg/Kg (SB-2 @ 5-ft bgs) confirming the values of field analyses results. Soil boring soil samples demonstrated the bulk of chloride concentrations reside in the zone from original ground surface to ±five (5) feet below ground surface (bgs).

## Site Remedial Proposal

In view of the bulk of chloride concentrations above NMOCD Remedial Threshold goals of 250 mg/Kg residing within  $\pm$ five (5) feet of original ground surface, excavate the area in the vicinity of SB-1 and original point of release a minimum of five (5) feet bgs. As excavation activities traverses from SB-1 towards SB-2, SB-3 and SB-4, depth will be determined by field analyses of chloride concentrations verified by laboratory analytical results. Horizontal limits of excavation will also be determined by chloride concentrations. With projected groundwater being  $\leq$ 50-feet



bgs, all impacted material in excess of NMOCD Remedial Threshold goals will be excavated and disposed. Impacted material will be transported to Sundance Services, Inc., for disposal.

Following completion of excavation activities and disposal of impacted material, the excavation will be backfilled with imported clean top soil. The entire disturbed area is to be contoured for natural drainage, disked and drill seeded with a mixture approved by the BLM.

Upon approval of the *Remediation Proposal*, EPI will initiate remedial phase of the project. At conclusion of the project, a *Site Closure Report* will be submitted to NMOCD, ExxonMobil Corporation and BLM.

Should you have any technical questions or concerns, please contact me at (575) 394-3481 (office), (575) 441-7802 (mobile) or via email at <u>dduncan@envplus.net</u>. Official communications/correspondence should be submitted to Mr. Shelby Pennington at (432) 266-1454 (mobile), (432) 596-4211 ext. 14 (office) or via email at <u>shelby.g.pennington@exxonmobil.com</u>.

Sincerely,

ENVIRONMENTAL PLUS, INC.

David P. Duncan Civil Engineer

- Cc: Shelby Pennington, Sr. Operations Compliance Technician, ExxonMobil Corporation Cody Miller, General Manager, EPI Roger Boone, Operations Superintendent, EPI Paul Evans, Environmental Protection Specialist, BLM
- Encl: Figure 1 Area Map
  - Figure 2 Site Location Map
  - Figure 3 Site Map
  - Figure 4 Soil Boring Location Map

Table 1 – Well Data

- Table 2 Summary of Soil Boring Soil Sample Field Analysis and Laboratory Analytical Results
- Table 3 Summary of Excavation Soil Sample Field Analysis and Laboratory Analytical Results

Attachment I – Site Photographs

Attachment II – Laboratory Analytical Results and Chain-of-Custody Form

Attachment III – Soil Boring Logs

Attachment IV – Copy of Initial NMOCD Form C-141

**FIGURES** 









TABLES

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### TABLE 1

### Well Data

### ExxonMobil - Avalon TB Transfer Line (Ref # 190033)

Well Number	Diversion <sup>A</sup>	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation <sup>B</sup>	Depth to Water (ft bgs)
CP 00851	3	EXXON CORPORATION	SAN	20S	28E	31 214	N32° 32' 3.69"	W104° 12' 51.09"	14-Sep-95	3,236	115
C 01923	3	MWJ PRODUCING COMPANY	PRO	20S	27E	36 42	N32° 31' 40.75"	W104° 13' 41.97"	03-Sep-80	3,275	
USGS #1				218	27E	4 1 3 2			14-Dec-76	3,192	22.04
C 01333	3 🚿	HUMBLE OIL	PRO	21.5 🦔	27E	05 411 🔅	N32 <sup>°</sup> / <sub>2</sub> 30' 29:60"	W104° 12' 39.00"	11-May-66	3,333	350
C 03163	. 3	DAVID MARLEY	STK	21S	27E	06 2 1 3	N32° 30' 48.43"	W104° 13' 40.73"	10-Mar-05	3,199	175
C 02699	0	BONNEVILLE FUELS	PRO:	21S	26E	01 4 1 1	N32° 30' 29.41"	W104° 14' 42.02" 🞲	19-May-00	3,179	89
USGS #2			· :	21S 🔹	27E	5 (4)3.3			01-Dec-55	3,285	206.13
USGS #3		the second s	i. S	21S	27E	5 4 1 4			14-Jan-86	3,299	. 196
USGS #4 🐘 🎊				21S	27E	6 141	a ser a s		24-Jan-57	3,186	36.57

\* = Data obtained from the New Mexico Office of the State Engineer Website (http://waters.ose.state.nm.as 7001/iWATERS/wr RegisServlet) and the USGS website (http://waterdata.usgs.gov/awis)

#### Shaded areas indicate well locations not shown on Figure 2

 $^{A} = in$  acre feet per annum

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<sup>B</sup> = Elevation interpolated from USGS topographical map based on referenced location

SAN = 72-12-1 Sanitary in Conjunction with a Commercial Use

PRO = 72-12-1 Prospecting or development of natural resource

STK = 72-12-1 Livestock watering

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

### TABLE 2

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## Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

## Exxon Mobil - Avalon Tank Battery Transfer Line (EPI Ref. #190033)

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)	Carbon Ranges C6-C12 (mg/Kg)	Carbon Ranges C12-C28 (mg/Kg)	Carbon Ranges C28-C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
	3	In Situ	23-Jul-08		2,200										2,510 -
SB-1	5	In Situ	23-Jul-08		240										63.8
	10	In Situ	23-Jul-08		160										24
SD 2	3	In Situ	23-Jul-08		120	~-									40.9
30-2	5	In Situ	23-Jul-08		120										16.1
	3	In Situ	23-Jul-08		1,200										535
SB-3	5	In Situ	23-Jul-08		240										93.6
	10	In Situ	23-Jul-08		240										17 5
SB-4	3	In Situ	23-Jul-08		240		- 0								110
	5	In Situ	23-Jul-08		180										36.7
NN	AOCD Rem	edial Thresh	olds	100		10				50				100	250

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Bold values exceed NMOCD remedial threshold goals

J = Analyte detected, but below the reporting limit, therefore, result is an estimated concentration

--- Not Analyzed

### TABLE 3

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### Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

#### Exxon Mobil - Avalon Tank Battery Transfer Line (EPI Ref. #190033)

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-C12 (mg/Kg)	DRO C12 C28 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
BG-1	0.5	In situ	05/27/08		80									<16
NSBTM-1	2	In sıtu	05/27/08		240									32
NSBTM-2	2	Excavated	05/27/08		1,840	\$			3					
NSBTM-2A	4	In situ	05/27/08		240									32
NSBTM-3	0.5	Excavated	05/28/08		4,000+				7					
NSBTM-3A	· 15'	In situ	05/28/08		4,000+									
NSBTM-4	0.5	Excavated	05/28/08		4,000+	<b>.</b>	<u> </u>		-	<u></u>	22			
NSBTM-4A	1.5	In situ	05/28/08		4,000+									
NSBTM-5	0.5	Excavated	05/28/08	2 X.	4,000+								(. • <u>.</u> )	
NSBTM-5A	15	In situ	05/28/08		4,000+	·								
NSBTM-6	0.5	Excavated	05/28/08		4,000+	-	2 ?			-1-			ê - <u>-</u>	
NSBTM-6A	1.5	In situ	05/28/08		4,000+									
NSBTM-7	0.5	Excavated	05/28/08		4,000+	//								T
NSBTM-7A	1.5	In sıtu	05/28/08		4,000+									
NSBTM-8	0.5	Excavated	05/28/08		4,000+							÷		
NSBTM-9	0.5	In situ	05/28/08		4,000+									
NSBTM-10	0.5	. In sıtu	05/28/08		4,000+									
N	MOCD Ren	nedial Thresholds		100		10				50			100	250

Bold values exceed NMOCD remedial threshold goals

Nomenclature. SP= Sample Point, T = Trench, SW = Sidewall, BTM = Bottom Hole, N = North, S = South, W = West and E = East

- - = Not Analyzed

## ATTACHMENTS

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## ATTACHMENT I PHOTOGRAPHS

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Photograph No. 1 – Lease Sign



Photograph No. 2 - Point of release and clamp



Photograph No. 3 – Looking northerly across release area



Photograph No. 4 – Looking northerly across release area



Photograph No. 5 - Looking northerly across excavated area



ATTACHMENT II LABORATORY ANALYTICAL DATA AND CHAIN-OF-CUSTODY FORM

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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC ATTN: DAVID P. DUNCAN P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (575) 394-2601

Receiving Date. 05/29/08 Reporting Date. 05/29/08 Project Owner: EXXON MOBIL (190033) Project Name: AVALON TB TRANSFER LINE Project Location: UL-C, SEC. 31, T20S, R28E Analysis Date: 05/29/08 Sampling Date: 05/27/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: KS

		C
LAB NUMBER	SAMPLE ID	(mg/kg)
H14885-1	BG-1 (0.5')	< 16
H14885-2	NSBTM-1 (2')	32
H14885-3	NSBTM-2A (4')	32
	• • • • • • • • • • • • • • • • • • • •	
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	< 0.1

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w.v aqueous extracts.

Date

#### H14885 EPI

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

#### Page 1 of 1

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# **Environmental Plus, Inc.**

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

(505) 394-3481 FAX: (505) 394-2601

<u> </u>																									
Company Name	Environmental Plus,	Inc	).				5. 9e	<u>، چ</u> ېتې و	· ·		£∛E	BIJI T	0.51 2322	مر در م مرکز م		de l	<b>A</b>	NAL	YS	IS R	EQ	UES	3 <b>T</b> ∼⊷		
EPI Project Mana	ager David P. Duncan																			$\square$			$\square$		
Mailing Address	P.O. BOX 1558											illi													
City, State, Zip	Eunice New Mexico	882	31									Ē	<u> </u>												
EPI Phone#/Fax	# 575-394-3481 / 575-3	94-	260	1							Ę	٣Р.	F												
<b>Client Company</b>	ExxonMobil											m	•												
Facility Name	Avalon TB Transfer	Line	e									. 1 8 .													
Location	UL-C, Sec. 31, T20S,	R2	8E						А	ttn:	Dav	/id F	P. Duncan												
Project Reference	ce 190033									Р	.0.	Box	1558												
EPI Sampler Nar	ne Kendall McCasland									Eur	nice	, NN	/ 88231												
		<u>,</u>				MA	RIX		_	PR	ESE	RV.	SAMPLI	NG	1										
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMI	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	отнек	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO₄ <sup>=</sup> )	Нd	TCLP	OTHER >>>	РАН			
1+14885-1 1	BG-1 (0.5')	G	1		<b> </b>	X					X		27-May-08	8:45	<u> </u>	<b> </b>	X		Ļ						
- 2	NSBTM-1 (2')	G			┢	X			<b> </b>		X		27-May-08	9:45	<b> </b>	<u> </u>	X			$\square$		$\vdash$	$\square$		<b> </b>
-3 3	NSBTM-2A (4')	G		┣—	┢	<u> X</u>		·	<b> </b>		X		27-May-08	14:35			X	$\vdash$	┣			┣┩	$\left  - \right $	'	<u> </u>
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## **Analytical Report 308654**

for

## **Environmental Plus, Incorporated**

Project Manager: David P. Duncan

Avalon TB Transfer Line 190033

30-JUL-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

> North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta



30-JUL-08



Project Manager: **David P. Duncan Environmental Plus, Incorporated** P.O. Box 1558 Eunice, NM 88231

Reference: XENCO Report No: **308654** Avalon TB Transfer Line Project Address: UL-C, Sec. 31, T20S, R28E

### David P. Duncan:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 308654. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 308654 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



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## Sample Cross Reference 308654



## Environmental Plus, Incorporated, Eunice, NM

Avalon TB Transfer Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 (3')	S	Jul-23-08 08 30		308654-001
SB-1 (5')	S	Jul-23-08 08·41		308654-002
SB-1 (10')	S	Jul-23-08 08 48		308654-003
SB-2 (3')	S	Jul-23-08 09.25		308654-004
SB-2 (5')	S	Jul-23-08 09 45		308654-005
SB-3 (3')	S	Jul-23-08 10 00		308654-006
SB-3 (5')	S	Jul-23-08 10 15		308654-007
SB-3 (10')	S	Jul-23-08 10:30		308654-008
SB-4 (3')	S	Jul-23-08 11 00		308654-009
SB-4 (5')	S	Jul-23-08 11.35		308654-010

## Certificate of Analysis Summary 308654

Environmental Plus, Incorporated, Eunice, NM

Project Name: Avalon TB Transfer Line

Project Id: 190033 Contact: David P Duncan Project Location: UL-C, Sec 31, T20S, R28E

#### Date Received in Lab: Fri Jul-25-08 12 06 pm

Report Date: 30-JUL-08

					Project Manager:	Brent Barron, II	
	Lab Id.	308654-001	308654-002	308654-003	308654-004	308654-005	308654-006
Analysis Pognested	Field Id:	SB-1 (3')	SB-1 (5')	SB-1 (10')	SB-2 (3')	SB-2 (5')	SB-3 (3')
Anuiysis Kequesiea	Depth						
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled.	Jul-23-08 08 30	Jul-23-08 08 41	Jul-23-08 08 48	Jul-23-08 09 25	Jul-23-08 09 45	Jul-23-08 10 00
Inorganic Anions by EPA 300	Extracted:						
	Analyzed:	Jul-28-08 21 06	Jul-28-08 21 06	Jul-28-08 21 06	Jul-28-08 21 06	Jul-28-08 21 06	Jul-28-08 21 06
	Units/RL.	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2510 50 0	63 8 5 00	24 0 5 00	40.9 10.0	161 500	535 10 0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brént Barron

Odessa Laboratory Director

WINDAWARAN

## **Certificate of Analysis Summary 308654**

Environmental Plus, Incorporated, Eunice, NM

Project Name: Avalon TB Transfer Line

Project Id: 190033 Contact: David P Duncan Project Location: UL-C, Sec 31, T20S, R28E

Date Received in Lab: Fri Jul-25-08 12 06 pm

Report Date: 30-JUL-08

					<b>Project Manager:</b>	Brent Barron, II
	Lab Id.	308654-007	308654-008	308654-009	308654-010	
Analysis Pageastad	Field Id:	SB-3 (5')	SB-3 (10')	SB-4 (3')	SB-4 (5')	
Analysis Kequesiea	Depth.					
	Matrix.	SOIL	SOIL	SOIL	SOIL	
	Sampled	Jul-23-08 10 15	Jul-23-08 10 30	Jul-23-08 11 00	Jul-23-08 11 35	
Inorganic Anions by EPA 300	Extracted:					
inorganie rinions by Erreeve	Analyzed	Jul-28-08 21 06	Jul-28-08 21 06	Jul-28-08 21 06	Jul-29-08 08 36	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chlonde		936 500	17 5 5 00	110 100	36 7 10 0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. This interpretations and results expressed throughout this analytical report represent the best judgment of NENCO Laboratories NENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Brent Barron

Odessa Laboratory Director



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- \* Outside XENCO'S scope of NELAC Accreditation

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4



## Project Name: Avalon TB Transfer Line

Work Order #: 308654			Pr	oject ID:			190033		
Lab Batch #: 729238	Sa	ample: 729238-	-1-BKS	Matri	ix: Solid				
Date Analyzed: 07/28/2008	Date Prej	Date Prepared: 07/28/2008 Analyst: LATCOR							
Reporting Units: mg/kg	B۶	atch #: 1	BLANK /!	BLANK SPI	KE REC	OVERY S	STUDY		
Inorganic Anions by EPA 300		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags		
Analytes	1	1		[C]	[D]	1 '			
Chloride		ND	10 0	116	116	75-125			
Lab Batch #: 729326	S	ample: 729326	·1-BKS	Matri	ix: Solid				
Date Analyzed: 07/29/2008	Date Prej	pared: 07/29/20	J08	Analy	st: LATC(	JR			
Reporting Units: mg/kg	Ba	atch #: 1	BLANK //	BLANK SPI	KE REC	OVERY S	STUDY		
Inorganic Anions by EPA 300		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags		
Analytes				[C]	[D]				
Chloride		ND	100	117	117	75-125			

Blank Spike Recovery [D] = 100\*[C]/[B] All results are based on MDL and validated for QC purposes

XENCO	(	•					
Laboratories	Project Name: A	valon TB	Transfer	Line			neiao
Work Order #: 308654							
Lab Batch #: 729238				Pr	oject ID:	190033	
Date Analyzed: 07/28/2008	Date	e Prepared:	07/28/2008		Analyst:	LATCOR	
QC- Sample ID: 308584-043 S		Batch #:	1		Matrix:	Soil	
Reporting Units: mg/kg		MAT	RIX / MA'	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions b Analytes	у ЕРА 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		93 9	200	334	120	75-125	
Lab Batch #: 729326							
Date Analyzed: 07/29/2008	Date	e Prepared:	07/29/2008		Analyst:	LATCOR	
QC- Sample ID: 308654-010 S		Batch #:	1		Matrix:	Soil	
Reporting Units: mg/kg		MAT	RIX / MA'	TRIX SPIKE	RECOV	VERY STU	DY
Inorganic Anions b Analytes	y EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		36 7	200	284	124	75-125	

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## Project Name: Avalon TB Transfer Line

Work Order #: 308654	der #: 308654
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Lab Batch #: 729238			Project I	<b>D:</b> 190033			
Date Analyzed: 07/28/2008	Date Prepared: 07/	28/2008	Analy	st: LATCOI	٤		
QC- Sample ID: 308584-043 D	Batch #:	1	Matr	ix: Soil			
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY		
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag		
Analyte		[ <b>B</b> ]					
Chloride	93 9	92 6	1	20			
Lab Batch #: 729326							
Date Analyzed: 07/29/2008	Date Prepared: 07/	29/2008	Analyst: LATCOR				
QC- Sample ID: 308654-010 D	Batch #:	1	Matr	ix: Soil			
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY		
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag		
Analyte		[B]					

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes

Page 1 of 1

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BOX 1558         Eunice New Mexico         #       575-394-3481 / 575-         // ExxonMobil       Avalon TB Transfer         UL-C, Sec 31, T205         ce       190033         me       Kendall McCasland         SAMPLE I D         SB-1 (3')         SB-1 (5)         SB-1 (5)         SB-2 (5)         SB-3 (5)         SB-3 (5)         SB-4 (6)         MULL MULL         07/2508         Cult         07/2508         FL (C)         SB-4 (6) | Inential Flus, finc. <i>FAX</i> (505) 394-2601         Environmental Plus, Imager         ager       David P Duncan         b       F.T.394-3481 / 575-394-34841 / 575-394-3481 / 575-394-3481 / 575-394- | Inefitial Fruss, finc.         Eunice, NM 88231       POE         FAX (505) 394-2601         Environmental Plus, Inc.         ager       David P Duncan         ager       State Stat | Inefitial Flus, finc.         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BOX 1558         Eunice New Mexico 88231       #         \$ 575-394-3481 / 575-394-2601       #         it       ExxonMobil         Avalon TB Transfer Line       UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       G         SB-1 (3)       G         SB-1 (3)       G         SB-1 (5)       G         SB-2 (5)       G         SB-3 (3)       G         SB-3 (5)       G         SB-3 (3)       G         SB-3 (5)       G         SB-4 (6)       G </td <td>Inefficial Fruss, finc.         Eunice, NM 88231       <math>P O Box 1558, E</math>         FAX (505) 394-2601         is       Environmental Plus, Inc.         lager       David P Duncan         is       <math>P O. BOX 1558</math>         Eunice New Mexico 88231         # 575-394-3481 / 575-394-2601         /* ExxonMobil         Avalon TB Transfer Line         UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       G         SB-1 (3)       G         SB-2 (6)       G         SB-3 (3)       G         SB-3 (3)       G         SB-3 (5)       G         SB-3 (5)       G         SB-4 (6)       G         SB-4 (6)       G         SB-4 (6)       G         SB-3 (3)       G         SB-4 (6)       G      &lt;</td> <td>Inefitial Flus, finc.         Eunice, NM 88231       <math>P O Box 1558, Eunit         FAX (505) 394-2601         is       Environmental Plus, Inc.         lager       David P Duncan         is       <math>P O. BOX 1558</math>         Eunice New Mexico 88231         #       575-394-3481 / 575-394-2601         /*       ExxonMobil         Avalon TB Transfer Line         UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       Integration         SB-1 (3)       G 1         SB-1 (5)       G 1         SB-1 (6)       G 1         SB-1 (7)       G 1         SB-1 (8)       G 1         SB-1 (10)       G 1         SB-2 (5)       G 1         SB-3 (3)       G 1         SB-3 (3)       G 1         SB-3 (5)       G 1         SB-3 (10)       G 1         SB-4 (6)       G 1<!--</math--></math></td> <td>Inefficient of the second s</td> <td>Inefitial Flus, Inc.         Funce, NM 88231       P O Box 1558, Eunice, NM         FAX (505) 394-2601         is       Environmental Plus, Inc.         ager       David P Duncan         is       P O. BOX 1558         Eunice New Mexico 88231         # 575-394-3481 / 575-394-2601         /*       ExxonMobil         Avalon TB Transfer Line         UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       G         G       U         G       I         SB-1 (3)       G         SB-1 (5)       G         SB-1 (10)       G         G       I         SB-2 (5)       G         SB-3 (3)       G         SB-3 (5)       G         SB-3 (5)       G         SB-4 (6)       G         SB-4 (6)       G         SB-4 (6)       G         SB-3 (3)       G         G       I         X       I         SB-3 (5)       G         SB-4 (6)       G         SB-4 (6)       G         SB-4 (</td> <td>International Plus, Inc.         PO Box 1558, Eunice, NM 8823         FAX (505) 394-2601         Senvironmental Plus, Inc.         ager David P Duncan         Senvironmental Plus, Inc.         ager David P Duncan         Senvironmental Plus, Inc.         ager David P Duncan         Senvironmental Plus, Inc.         Advid P Duncan         Sample Colspan="2"         Advid Matrix</td> <td>Inefitial Flus, Inc.         Funce, NM 88231       P O Box 1558, Eunice, NM 88231         FAX (505) 394-2601         is       Environmental Plus, Inc.         lager       David P Duncan         is       P O. BOX 1558         Eunice New Mexico 88231         #       575-394-3481 / 575-394-2601         /       ExaonMobil         Avalon TB Transfer Line         UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       Integration         if       Integration         SB-1 (3)       G 1         SB-1 (3)       G 1         SB-1 (10)       G 1         SB-2 (6)       G 1         SB-3 (3)       G 1         SB-3 (5)       G 1         SB-3 (5)       G 1         SB-4 (6)       G 1         SB-4 (6)       G 1         SB-4 (6)       G 1         SB-3 (3)       G 1         SB-4 (6)       G 1         SB-4 (6)</td> <td>Inefficient of the state o</td> <td>Intertion of the state of</td> <td>Intertion of the state of t</td> <td>Intertary flux, flux.         PO Box 1558, Eunice, NM 88231         FAX (505) 394-2601         Bill To         Colspan="2"&gt;Bill To         Colspan="2"&gt;Bill To         Colspan="2"&gt;Bill To         Colspan="2"&gt;Colspan="2"&gt;Bill To         Colspan="2"&gt;Colspan="2"&gt;Bill To         Colspan="2"&gt;Colspan="2"&gt;Bill To         Colspan="2"&gt;Colspan="2"&gt;Bill To         Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"Colspan="2"&gt;Colspan="2"Colspa="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2</td> <td>Intertian Frits, fire:         P O Box 1558, Eunice, NM 88231         FAX (505) 394-2601         Gard P Duncan         Gard P Duncan         S PO. BOX 1558         Eunice NM 88231         # 575-394-3481 / 575-394-2601         Attin David P Duncan         P O Box 1558         Eunice New Mexice 88231         # 575-394-3481 / 575-394-2601         Attin David P Duncan         P O Box 1558         Eunice, NM 88231         MATRIX PRESERV SAMPLING         Gard Watter Eune         UL-C, Sec 31, T2OS, R28E         Colspan="2"&gt;Colspan="2"Colsp</td> <td>Intertiant Plus, Inc.         P O Box 1558, Eunice, NM 88231         PAX (505) 394-2601         Environmental Plus, Inc.         Bill To         All for the sum of the sum of</td> <td>Internation of the second sec</td> <td>Intertiant Prices, filler.         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Ontain Or Out.         Environmental Plus, Inc.       Bill To       ANALYSIS REQ         ager       David P. Duncan       Bill To       ANALYSIS REQ         ager       David P. Duncan       Bill To       ANALYSIS REQ         ager       David P. Duncan       Funce, NM 88231       ANALYSIS REQ         ager       David P. Duncan       Funce, NM 88231       Funce, NM 88231         #       575-534-34817 (575-534-2601       Attin David P. Duncan       Funce, NM 88231         Avalon TB Transfer Line       Attin David P. Duncan       Funce, NM 88231       Funce, NM 88231         SampLE I D       Group (group to the state stat</td><td>Internant Prints, fine.       Drain to todate         .Eunice, NM 88231       P O Box 1558, Eunice, NM 88231       LAB XENCO         PAX (505) 394-2601       ANALYSIS REQUES       ANALYSIS REQUES         ager       David P Duncan       ANALYSIS REQUES         ager       David P Duncan       ANALYSIS REQUES         # 575-394-3481 / 575-394-2601       Image: State / 575-394-2601       Image: State / 575-394-2601         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-2601         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301         // State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301       Image: State / 575-394-301         // State / State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // State / State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // State / 575-394-301       Image: State / 575-394-301</td><td>Internation of the second s</td><td>Interitation of construction of construlin onostruction of construction of construction of constr</td></th></td> | Inefficial Fruss, finc.         Eunice, NM 88231 $P O Box 1558, E$ FAX (505) 394-2601         is       Environmental Plus, Inc.         lager       David P Duncan         is $P O. BOX 1558$ Eunice New Mexico 88231         # 575-394-3481 / 575-394-2601         /* ExxonMobil         Avalon TB Transfer Line         UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       G         SB-1 (3)       G         SB-2 (6)       G         SB-3 (3)       G         SB-3 (3)       G         SB-3 (5)       G         SB-3 (5)       G         SB-4 (6)       G         SB-4 (6)       G         SB-4 (6)       G         SB-3 (3)       G         SB-4 (6)       G      < | Inefitial Flus, finc.         Eunice, NM 88231 $P O Box 1558, Eunit         FAX (505) 394-2601         is       Environmental Plus, Inc.         lager       David P Duncan         is       P O. BOX 1558         Eunice New Mexico 88231         #       575-394-3481 / 575-394-2601         /*       ExxonMobil         Avalon TB Transfer Line         UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       Integration         SB-1 (3)       G 1         SB-1 (5)       G 1         SB-1 (6)       G 1         SB-1 (7)       G 1         SB-1 (8)       G 1         SB-1 (10)       G 1         SB-2 (5)       G 1         SB-3 (3)       G 1         SB-3 (3)       G 1         SB-3 (5)       G 1         SB-3 (10)       G 1         SB-4 (6)       G 1$ | Inefficient of the second s | Inefitial Flus, Inc.         Funce, NM 88231       P O Box 1558, Eunice, NM         FAX (505) 394-2601         is       Environmental Plus, Inc.         ager       David P Duncan         is       P O. BOX 1558         Eunice New Mexico 88231         # 575-394-3481 / 575-394-2601         /*       ExxonMobil         Avalon TB Transfer Line         UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       G         G       U         G       I         SB-1 (3)       G         SB-1 (5)       G         SB-1 (10)       G         G       I         SB-2 (5)       G         SB-3 (3)       G         SB-3 (5)       G         SB-3 (5)       G         SB-4 (6)       G         SB-4 (6)       G         SB-4 (6)       G         SB-3 (3)       G         G       I         X       I         SB-3 (5)       G         SB-4 (6)       G         SB-4 (6)       G         SB-4 ( | International Plus, Inc.         PO Box 1558, Eunice, NM 8823         FAX (505) 394-2601         Senvironmental Plus, Inc.         ager David P Duncan         Senvironmental Plus, Inc.         ager David P Duncan         Senvironmental Plus, Inc.         ager David P Duncan         Senvironmental Plus, Inc.         Advid P Duncan         Sample Colspan="2"         Advid Matrix | Inefitial Flus, Inc.         Funce, NM 88231       P O Box 1558, Eunice, NM 88231         FAX (505) 394-2601         is       Environmental Plus, Inc.         lager       David P Duncan         is       P O. BOX 1558         Eunice New Mexico 88231         #       575-394-3481 / 575-394-2601         /       ExaonMobil         Avalon TB Transfer Line         UL-C, Sec 31, T20S, R28E         ce       190033         me       Kendall McCasland         SAMPLE I D       Integration         if       Integration         SB-1 (3)       G 1         SB-1 (3)       G 1         SB-1 (10)       G 1         SB-2 (6)       G 1         SB-3 (3)       G 1         SB-3 (5)       G 1         SB-3 (5)       G 1         SB-4 (6)       G 1         SB-4 (6)       G 1         SB-4 (6)       G 1         SB-3 (3)       G 1         SB-4 (6)       G 1         SB-4 (6) | Inefficient of the state o | Intertion of the state of | Intertion of the state of t | Intertary flux, flux.         PO Box 1558, Eunice, NM 88231         FAX (505) 394-2601         Bill To         Colspan="2">Bill To         Colspan="2">Bill To         Colspan="2">Bill To         Colspan="2">Colspan="2">Bill To         Colspan="2">Colspan="2">Bill To         Colspan="2">Colspan="2">Bill To         Colspan="2">Colspan="2">Bill To         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspa="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2 | Intertian Frits, fire:         P O Box 1558, Eunice, NM 88231         FAX (505) 394-2601         Gard P Duncan         Gard P Duncan         S PO. BOX 1558         Eunice NM 88231         # 575-394-3481 / 575-394-2601         Attin David P Duncan         P O Box 1558         Eunice New Mexice 88231         # 575-394-3481 / 575-394-2601         Attin David P Duncan         P O Box 1558         Eunice, NM 88231         MATRIX PRESERV SAMPLING         Gard Watter Eune         UL-C, Sec 31, T2OS, R28E         Colspan="2">Colspan="2"Colsp | Intertiant Plus, Inc.         P O Box 1558, Eunice, NM 88231         PAX (505) 394-2601         Environmental Plus, Inc.         Bill To         All for the sum of | Internation of the second sec | Intertiant Prices, filler.         Eunice, NM 88231       L         Eunice, NM 88231       L         Eunice, NM 88231       L         Eunice, NM 88231       L         Sampe Colspan="2">Bill To       ANALYS         ager David P Duncan       Sampe Colspan="2">Sampe Colspan="2"         Sampe Colspan="2"       Sampe Colspan="2"       Sampe Colspan="2"       Sampe Colspan="2"         Sampe Colspan="2"       Sampe Colspan= 2"       Sampe Colspan="2"         Sampe Colspan= 2"       Sampe Colspan= 2"       Sampe Colspan= 2"         Sampe Colspan= 2" <th col<="" td=""><td>Onland Difference         Eunice, NM 88231       LAB         Eunice, NM 88231       LAB         FO Box 1558, Eunice, NM 88231       LAB         Eunice, NM 88231       LAB         S PO Box 1558, Eunice, NM 88231       LAB         Eunice New Mexico 88231       ANALYSIS F         Eunice New Mexico 88231       ANALYSIS F         ANALYSIS F         Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"         ANALYSIS F         Sectors and the colspan="2"         Colspan="2"         Antion David P Duncan         Colspan="2"         Sectors 3003         The Ball to Colspan="2"         SaMPLE I D       Colspan="2"         Sectors 300       Colspan="2"         SaMPLE I D          SaMPLE I D          Sectors 300       Colspan="2"         SamPL Colspan= 200         SamPL Colsp</td><td>Intertain Finits, fine.       Ontain Or Out.         Environmental Plus, Inc.       Bill To       ANALYSIS REQ         ager       David P. Duncan       Bill To       ANALYSIS REQ         ager       David P. Duncan       Bill To       ANALYSIS REQ         ager       David P. Duncan       Funce, NM 88231       ANALYSIS REQ         ager       David P. Duncan       Funce, NM 88231       Funce, NM 88231         #       575-534-34817 (575-534-2601       Attin David P. Duncan       Funce, NM 88231         Avalon TB Transfer Line       Attin David P. Duncan       Funce, NM 88231       Funce, NM 88231         SampLE I D       Group (group to the state stat</td><td>Internant Prints, fine.       Drain to todate         .Eunice, NM 88231       P O Box 1558, Eunice, NM 88231       LAB XENCO         PAX (505) 394-2601       ANALYSIS REQUES       ANALYSIS REQUES         ager       David P Duncan       ANALYSIS REQUES         ager       David P Duncan       ANALYSIS REQUES         # 575-394-3481 / 575-394-2601       Image: State / 575-394-2601       Image: State / 575-394-2601         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-2601         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301         // State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301       Image: State / 575-394-301         // State / State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // State / State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // State / 575-394-301       Image: State / 575-394-301</td><td>Internation of the second s</td><td>Interitation of construction of construlin onostruction of construction of construction of constr</td></th> | <td>Onland Difference         Eunice, NM 88231       LAB         Eunice, NM 88231       LAB         FO Box 1558, Eunice, NM 88231       LAB         Eunice, NM 88231       LAB         S PO Box 1558, Eunice, NM 88231       LAB         Eunice New Mexico 88231       ANALYSIS F         Eunice New Mexico 88231       ANALYSIS F         ANALYSIS F         Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"         ANALYSIS F         Sectors and the colspan="2"         Colspan="2"         Antion David P Duncan         Colspan="2"         Sectors 3003         The Ball to Colspan="2"         SaMPLE I D       Colspan="2"         Sectors 300       Colspan="2"         SaMPLE I D          SaMPLE I D          Sectors 300       Colspan="2"         SamPL Colspan= 200         SamPL Colsp</td> <td>Intertain Finits, fine.       Ontain Or Out.         Environmental Plus, Inc.       Bill To       ANALYSIS REQ         ager       David P. Duncan       Bill To       ANALYSIS REQ         ager       David P. Duncan       Bill To       ANALYSIS REQ         ager       David P. Duncan       Funce, NM 88231       ANALYSIS REQ         ager       David P. Duncan       Funce, NM 88231       Funce, NM 88231         #       575-534-34817 (575-534-2601       Attin David P. Duncan       Funce, NM 88231         Avalon TB Transfer Line       Attin David P. Duncan       Funce, NM 88231       Funce, NM 88231         SampLE I D       Group (group to the state stat</td> <td>Internant Prints, fine.       Drain to todate         .Eunice, NM 88231       P O Box 1558, Eunice, NM 88231       LAB XENCO         PAX (505) 394-2601       ANALYSIS REQUES       ANALYSIS REQUES         ager       David P Duncan       ANALYSIS REQUES         ager       David P Duncan       ANALYSIS REQUES         # 575-394-3481 / 575-394-2601       Image: State / 575-394-2601       Image: State / 575-394-2601         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-2601         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301         // State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // ExxonMobil       Avalon TB Transfer Line       Attin David P Duncan       Image: State / 575-394-301       Image: State / 575-394-301         // State / State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // State / State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301       Image: State / 575-394-301         // State / 575-394-301       Image: State / 575-394-301</td> <td>Internation of the second s</td> <td>Interitation of construction of construlin onostruction of construction of construction of constr</td> | Onland Difference         Eunice, NM 88231       LAB         Eunice, NM 88231       LAB         FO Box 1558, Eunice, NM 88231       LAB         Eunice, NM 88231       LAB         S PO Box 1558, Eunice, NM 88231       LAB         Eunice New Mexico 88231       ANALYSIS F         Eunice New Mexico 88231       ANALYSIS F         ANALYSIS F         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         ANALYSIS F         Sectors and the colspan="2"         Colspan="2"         Antion David P Duncan         Colspan="2"         Sectors 3003         The Ball to Colspan="2"         SaMPLE I D       Colspan="2"         Sectors 300       Colspan="2"         SaMPLE I D          SaMPLE I D          Sectors 300       Colspan="2"         SamPL Colspan= 200         SamPL Colsp | Intertain Finits, fine.       Ontain Or Out.         Environmental Plus, Inc.       Bill To       ANALYSIS REQ         ager       David P. Duncan       Bill To       ANALYSIS REQ         ager       David P. Duncan       Bill To       ANALYSIS REQ         ager       David P. Duncan       Funce, NM 88231       ANALYSIS REQ         ager       David P. Duncan       Funce, NM 88231       Funce, NM 88231         #       575-534-34817 (575-534-2601       Attin David P. Duncan       Funce, NM 88231         Avalon TB Transfer Line       Attin David P. Duncan       Funce, NM 88231       Funce, NM 88231         SampLE I D       Group (group to the state stat | Internant Prints, fine.       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#### Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client	Envi Plus
Date/ Time	1 25.08 12 00
Lab ID #	308654
Initials	<u> </u>

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#### Sample Receipt Checklist

				Client Init	uals
#1	Temperature of container/ cooler?	1953	No	10°0	
#2	Shipping container in good condition?	(es	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	(es	No		
#6	Sample instructions complete of Chain of Custody?	(es	No		
#7	Chain of Custody signed when relinquished/ received?	Tes	No		-1
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Lid	
#9	Container label(s) legible and infact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	(res)	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	_
#13	Samples properly preserved?	Yes	No	See Below	Forester
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	(e)	No		-
#16	Containers documented on Chain of Custody?	(es	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	(Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	-Not Applicable	

#### Variance Documentation

## ATTACHMENT III SOIL BORING LOGS

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					L	_09	Of Tes	t Borin	gs			(NOTE - Pa	ge 1 of 1)
.1							Projec	t Numbe	ri :	190033			
		Envir		NTAL F	Lus, Ir	NC.	Projec	t Name:	Exxor	nMobil-Av	/alon T	ank Battery	Line Transfer
	ř	REME FU	REMEDIAL CONSTRUCTION				Locatio	n: UL-	-C, Sec	tion 31,	Townsk	nip 20 South, I	Range 28 East
3	s 		505-3	94-3481			Boring N	lumberi	SB-1		Surfac	ce Elevation: 3	3,280-feet amsl
0	e	ery ss)	aune	ارد مور	ide sis (g)	sig	순군		Star	rt Date:	7-23-0	18 Time:	0830 hrs
Tim	Samp Typ		oist	PII eadli (ppr	htor naly mg/H	D'S'D	Dep (fee		Com	pletion I	Date: <u>7</u>	<u>7-23-08</u> T	ime: <u>0848 hrs</u>
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0848					160			$\vdash$		1በ'	SANTI.	Tan - fine	
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					L	-09	Of Tes	t Borings (NOTE - Page 1 of 1)
	:4						Projec	:t Number: 190033 .
		Еичі		NTAL F	LUS, II	NC.	Projec	t Name: ExxonMobil-Avalon Tank Battery Line Transfer
		REMEDIAL CONSTRUCTION Location: EUNICE, NEW MEXICO				Locatio	n: UL-C, Section 31, Township 20 South, Range 28 East	
	\$		505-3	94-3481			Boring I	Number: SB-2 Surface Elevation: 3,280-feet amsl
	e e	ery 's)	aur	sốc	sis (g)	5 Vio	the second	Start Date: 7-23-08 Time: 0925 hrs
Time	Samp Typ	ACO NCA NCA	oisti	PII PII PII PII	hlor naly k	U.S.C Svmb	Dept	Completion Date: <u>7-23-08</u> Time: <u>0945 hrs</u>
		2.≏	Σ		0∢ ∨			Description
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0925	<u> </u>				120			3' SAND/Caliche, Tan - fine
0945					120			5' SAND/Colliche, Jon - fine
								End of Soil Boring at 5' bgs
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Date	Tim	e Sa De	mple pth	Casing Depth	Cave-1 Depth	n V	ater <sup>Di</sup> evel	niung ne mode Auger Iraller
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					L	.og	Of Test	t Borings (NEITE - Page 1 of 1)
81							Projec	t Number: 190033
		Еичг			LUS, It	vc.	Projec	t Name: ExxonMobil-Avalon Tank Battery Line Transfer
				LTING AN	ID CTION	Ì	Locatio	n: UL-C, Section 31, Township 20 South, Range 28 East
	•	EU	505-394-3481			ł	Boring N	lumber: SB-3 Surface Elevation: 3,280-feet amsl
	<u>م</u>		e L	SB	ak is Ce		50	Start Date: 7-23-08 Time: 1000 hrs
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			E nvif remi	RONMEI CONSUI EDIAL INICE,	NTAL F LTING AN CONSTRU NEW MEX	TALPLUS, INC.Project Name: ExxonMobil-Avalon Tank Battery Line TransfTING AND UNSTRUCTION IEW MEXICOLocation:UL-C, Section 31, Township 20 South, Range 28 Ea:							2r
				505-3	94-3481			Boring N	lumber:	SB-4	Surfac	e Elevation: 3,280-feet ams	sl
	Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Jepth (feet)		Start Date: Completion I Descr	7-23-0 )ate: 7 ription	18 Tíme: 1100 hrs 7-23-08 Tíme: 1135 hrs	
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## ATTACHMENT IV COPY OF NMOCD FORM C-141

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### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

#### **Release Notification and Corrective Action OPERATOR** Initial Report Final Report Name of Company ExxonMobil Contact Toni Collier Address PO. Box 4358, Houston, TX 77210 Telephone No 281-654-1133 Facility Name Avalon Delaware Unit Facility Type Flowline Mineral Owner BLM Lease No NMNM 0119 Surface Owner BLM LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County С 31 205 28E Eddy Latitude N32.32 5 22 Longitude 104 13 18 92 NATURE OF RELEASE Type of Release Produced Water Volume of Release 56 bbls Volume Recovered 0 bbls Source of Release 2 7/8" flowline Date and Hour of Occurrence Date and Hour of Discovery 8 30AM 5/26/08 5/26/08 If YES, To Whom? Was Immediate Notice Given? Yes No Not Required Mike Bractcher By Whom? Shelby Pennington Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse □ Yes ⊠ No If a Watercourse was Impacted, Describe Fully \* N/A Describe Cause of Problem and Remedial Action Taken \* 2 7/8" flowline, 4 years old leaked due to internal corrosion Line was isolated Describe Area Affected and Cleanup Action Taken \* Contaminated soil was immediately excavated. Delineation plan is being worked to submit to NMOCD I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations OIL CONSERVATION DIVISION Signature Approved by District Supervisor Printed Name Kevin M Dillow Title: Compliance Supervisor Approval Date Expiration Date E-mail Address Kevin.M Dillow@exxonmobil.com Conditions of Approval Attached 🗌 Date<sup>.</sup> 6/4/08 Phone. 281-654-1557

\* Attach Additional Sheets If Necessary

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



ExxonMobil PO Box 4358 Houston, TX 77210

RE: Avalon TB Transfer Line (Closest facility: Avalon Delaware #511 30-015-24524) C-31-20S-28E Eddy County, New Mexico 2RP-201

Dear Operator:

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a work plan proposal (plan) for remediation of a release of produced fluids that occurred at the above referenced facility.

The plan is accepted with the following stipulations:

- Confirmation samples are to be obtained and submitted to OCD prior to backfilling.
- Notify the OCD 48 hours prior to obtaining samples where analyses are to be submitted to the OCD.
- Submit a Final Report Form C-141 upon satisfactory completion of activities.
- Remediation requirements may be subject to change as site conditions warrant.
- Remediation to be completed by October 22, 2008.

Please be advised that NMOCD acceptance of this plan does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of this plan does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Respectfully, Sherry Bonham

Sherry Bonham NMOCD District II