ENVIRONMENTAL PLUS, INC.



CONSULTING AND REMEDIAL CONSTRUCTION

9 November 2011	HOBBS OCD
Mr. Geoffrey Leking	NOV 1 6 2011
Environmental Engineer	
New Mexico Oil Conservation Division	RECEIVED
1625 North French Drive	
Hobbs, New Mexico 88240	

RE: Remediation Closure Report ConocoPhillips Company – EVGSAU Well #2801-002 Release Area UL-M (SW1/4 of the SW1/4) of Section 28, T 17 S, R 35 E; Lea County, New Mexico Latitude: 32° 46' 49.99"; Longitude: 103° 28' 11.64" EPI Ref. #150034

Dear Mr. Leking:

The below *Remediation Closure Report* (*Report*) is an abbreviated version depicting prominent remedial activities conducted on the above referenced Release Area. However, for clarity and cross reference elimination purposes, the *Report* includes *Release History, Site Background, Preliminary Field Work, Analytical Data and Procedures* and *Field Remediation Activities*.

Release History

On 3 August 2011 at 0700 a.m. approximately 0.4-barrels (bbls) of produced water and 15-bbls of petroleum products were released from a 2-3/8 inch steel surface flow line. Approximately 0.4-bbl of produced water and 15-bbls of petroleum product were recovered. The combined fluids covered a release area of $\pm 1,232$ - square feet and an overspray area of $\pm 2,956$ - square feet. After initial vacuuming of fluids, ConocoPhillips retained the services of Environmental Plus, Inc., (EPI) to GPS survey, photograph and assess product/water impacts of the release area. This letter report provides a *Remediation Proposa*l for the release area.

Site Background

PKJ1603452866

The release area is located in Section 28, T17S, R35E at an approximate elevation of 3,951 feet above mean sea level (amsl). The property is owned by the State of New Mexico and managed by the New Mexico State Land Office (NMSLO). 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 water wells (domestic, agriculture or public) or bodies of surface water exist within a 1,000 feet radius of the release area (reference *Figure 2*). Groundwater data indicates the average water depth is approximately sixty-five (65) feet below ground surface (bgs). Based on available information, it was determined the vertical distance between impacted soil and groundwater is approximately 60 feet. Utilizing this information, New Mexico Oil Conservation Division Remedial Threshold Goals (NMOCD Goals) for this Site were determined as following:

2100 AVE O ~ PO BOX 1558 ~ EUNICE, NM 88231 PHONE (575) 394-3481 * (575) 394-2601 FAX

128-4138

Parameter	NMOCD Goals
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	100 mg/Kg
Chlorides	250 mg/Kg

Preliminary Field Work

On 17 August 2011 EPI visited the Release Area to conduct GPS survey, photograph and assess surface damage. Having recently completed remediation activities in the Buckeye area [ConocoPhillips, EVGSAU #2913-006 Release Area located in UL-P (SE1/4 of the SE1/4) of Section 19, T17S, R37E], EPI concluded delineation via trenching or soil borings was not required. Dense rock formations which commence approximately four (4) inches and extend fifteen (15) feet below ground surface (bgs) limit vertical migration of production fluids. Based on related experience, impacted area should be limited to less than five (5) vertical feet. This concept is promoted by efficiency of cleanup efforts in vacuuming the release area leaving little volume of production fluids for sub-surface seepage.

Analytical Data and Procdures

In reviewing Table 3, *Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results*, it can be noted chloride concentrations are the main Constituent-of-Concern with TPH concentrations a minor part. Sidewalls and bottom of the excavation were excavated until both TPH and chloride concentrations were within NMOCD Remedial Threshold Goals (NMOCD Goals).

Upon collection of soil samples, a portion of each was field tested for organic vapor and chloride concentrations. Soil samples collected for organic vapors were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. The soil sample was then tested for organic vapors utilizing a MiniRaeTM Photoionizaztion Detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for benzene response. Chloride concentrations were analyzed in the field utilizing a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses were immediately inserted into laboratory provided containers, labeled, placed in self-sealing polyethylene bags, inserted into coolers, iced down and transported to an independent laboratory for analyses of Constituent-of-Concern under Chain-of-Custody protocol.

Field Remedial Activities

EPI mobilized equipment to the job site on 10 October 2011 and commenced excavation on 12 October 2011. From 12-23 October 2011, approximately 532 cubic yards of impacted material were excavated from the release and overspray areas. Soil samples were collected from sidewalls and bottom of the excavation on 10-14-11, 10-18-11 and 10-19-11 for laboratory analyses of BTEX, TPH and chloride concentrations. Figure #4, *Sample Point Location Map*, illustrates sidewall (SW) and bottom hole (BH) soil sample locations with values noted in Table #3.

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With all soil samples indicating BTEX, TPH and chloride concentrations were within NMOCD Goals, backfilling the excavation commenced. On 24 October 2011, approximately 490 cubic yards of clean top soil free of deleterious material, large clumps or rocks were transported to the release area from Pearce Estate Pit. Imported top soil combined with 42 cubic yards of previously stockpiled material on site was used to backfill the excavation and release areas. Due to release area overspray being chloride concentrations and surficial in nature, top one (1) foot was excavated and back filled with top soil. Area did not require spraying with six (6) percent Micro®Blaze solution.

Upon completion of backfill activities, the area was contoured to prevent wind/water erosion, pooling of water and promote natural drainage. Remaining activity for completing the project is discing and deep drill seeding of the disturbed areas with a mixture approved by the NMSLO. However, in view of drought conditions, it is recommended this activity be postponed until ground and weather conditions are conducive to vegetative growth. Hence, this event may not occur until late spring 2012.

Should you have technical questions, concerns or need additional information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or vie e-mail at <u>dduncanepi@gmail.com</u>.

Official communications should be directed to Mr. John Gates at (575) 391-3158 (office), (575) 390-4821 (cellular) or via e-mail at <u>John.W.Gates@conocophillips.com</u>. Correspondence should be addressed to:

Mr. John W. Gates HSER Lead Permian-Buckeye Operations 29 Vacuum Complex Lane Lovington, New Mexico 88260-9664

Sincerely,

ENVIRONMENTAL PLUS, INC.,

David P. Duncan Civil Engineer EPI Project Manager

Cc: John W. Gates, HSER Lead – ConocoPhillips Corp. Myra Harrison, District Resource Manager – NMSLO (Hobbs, NM) Steve Ikeda, Field Operations – NMSLO (Santa Fe, NM) Cody Miller, General Manager - EPI Roger Boone, Operations Superintendent – EPI

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Encl: Figure 1 – Area Map Figure 2 – Site Location Map Figure 3 – Release Area Map



Figure 4 – Sample Point Location Map Table 1 – Well Data Table 3 – Summary of Soil Sample Field Analyses and Laboratory Analytical Results Attachment I – Photographs Attachment II – Laboratory Analytical Results Attachment III – Copy of Initial NMOCD Form C-141

Final NMOCD Form C-141

FIGURES









TABLES

TABLE 1

Well Data

ConocoPhillips - East Vacuum Graybr g - San Andres Unit Tract 2801-002 (Ref. # 150034)

Well Numbr	Diversion ^A	Owner	Use	Twsp	Rng	Sec qg	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water
L 04028	3	ZAPATA PETROLEUM CORPORATION	PRO	175	35E	29 2 1	N32º 48' 34.50"	W103° 28' 45.96"		3,973	
L 04829 X4				175	35E	29 3 2	N32° 48' 8.33"	W103° 29' 1.36"		3,976	
L 10445	0	GILES LEE	STK	175	35E	29 4 2 4	N32º 48' 8.14"	W103° 28' 30.39"		3,967	
L 05439	0	HUMBLE OIL & REFINING COMPANY	PRO	175	35E	19 3 3 2	N32° 48' 47.66"	W103° 30' 18.14"	25-Jul-64	3,996	85
L 10816	0	PEARCE RANCH	STK	175	35E	19	N32° 48' 47.66"	W103° 30' 18.14"		3,996	
L 04829	317	PHILLIPS PETROLEUM COMPANY	OIL	175	35E	20 4 1	N32° 49' 0.71"	W103° 28' 46.03"		3,973	
L 04829 X				175	35E	21 43	N32º 48' 47.21"	W103° 27' 44.00"		3,957	
L 03991	0	ZAPATA PETROLEUM CO.	PRO	175	35E	28 1 4 4	N32º 48' 21.08"	W103° 27' 59.45"		3,957	
L 03992	3	ZAPATA PETROLEUM CORPORATION	PRO	175	35E	28 2 2 3	N32° 48' 34.02"	W103° 27' 28.47"	02-Sep-58	3,947	65
L 04829 X3				175	35E	28 1 3	N32º 48' 21.16"	W103° 28' 14.95"		3,963	
L 05362	0	HUMBLE OIL & REFINING COMPANY	PRO	175	35E	28 4 4 3	N32° 47' 54.70"	W103° 27' 28.42"	02-Apr-64	3,947	80
L 03875 S	0	DUKE ENERGY FIELD SERVICES, LP	POL	175	35E	30 433	N32° 47' 55.30"	W103° 29' 47.88"		3,986	
L 04066	3	GACKLE DRILLING COMPANY	PRO	175	35E	30 2 4	N32° 48' 21.55"	W103° 29' 32.41"	03-Feb-59	3,986	70
L 04490 APPRO	0	MORAN OIL PRODUCING & DRILLING	PRO	175	35E	30 2 4	N32° 48' 21.55"	W103° 29' 32.41"	25-Jul-60	3,986	70
L 05392	0	INC. A.W. THOMPSON	PRO	17S	35E	30 3 1	N32° 48' 8.38"	W103° 30' 18.09"	16-May-64	3,996	80
L 05744	0	TRI-SERVICE DRILLING COMPANY	PRO	175	35E	30 233	N32° 48' 21.53"	W103° 29' 47.94"		3,993	75
L 06357 S	207.8	REPUBLIC FACTORS INC. OF MIDLA	COM	175	35E	30 113	N32º 48' 34.57"	W103° 30' 18.13"	20-Jun-89	3,996	130
L 03873	31.68	PHILLIPS PETROLEUM CO.	IND	175	35E	31 1 2 3	N32° 47' 42.18"	W103° 30' 3,44"		3,986	
L 03874	23.67	PHILLIPS PETROLEUM CORP.	IND	175	35E	31 213	N32° 47' 42.18"	W103° 29' 47.86"		3,983	
L 04247 A	1400	U.S. BANK NATIONAL ASSOCIATION	IND	175	35E	31 313	N32º 47' 16.01"	W103° 30' 18.04"	25-Jan-74	3,993	95
L 05010 EXP	0	NOBLE DRILLING CO.	PRO	175	35E	31 2 2	N32° 47' 42.15"	W103° 29' 32.29"		3,976	
L 07695	480	PHILLIPS PETROLEUM COMPANY	OIL	175	35E	32 4 3	N32° 47' 2.60"	W103° 28' 45.63"		3,963	
L 04578	3	SHOENFELD-HUNTER-KITCH DRLG.CO	PRO	17S	35E	33	N32° 47' 2.45"	W103" 28' 14.75"	12-Jan-61	3,957	60
L 04586	3	HONDO DRILLING	PRO	175	35E	33 433	N32° 47' 2.29"	W103° 27' 43.86"	18-Jan-61	3,947	50
L 04633 APPRO	0	HONDO DRILLING COMPANY	PRO	175	35E	33 4 2	N32" 47' 15.34"	W103° 27' 28.42"	20-Apr-61	3,940	65
L 04829 X5				175	35E	33 13	N32° 47' 28.77"	W103" 28' 14.73"		3,957	
L 04880	0	HONDO DRILLING CO.	PRO	175	35E	33 32	N32° 47' 15.52"	W103° 27' 59.30"	18-Apr-62	3,953	90
L 05834	1150	SOUTHWESTERN PUBLIC SERVICE	IND	175	35E	33 4	N32° 47' 2.29"	W103° 27' 43.86"		3,947	
L 07785	0	SOUTHWESTERN PUBLIC SERVICE CO	IND	175	35E	33 4 3	N32° 47' 2.29"	W103° 27' 43.86"		3,947	
L 08045 EXP	0	PHILLIPS PETROLEUM COMPANY	SAN	175	35E	33 214	N32º 47' 41.68"	W103° 27' 43.89"		3,947	
L 05850	0	KERMAC POTASH CO.	PRO	175	35E	19 222	N32º 49' 27.04"	W103º 29' 32.54"	10-Feb-66	3,983	
1. 02943	3	% CITIES SERVICE CO.	PRO	175	35E	20 114	N32º 49' 27.05"	W103º 29' 17.03*	27-Jul-55	3,987	60
L 10443	0	GILES LEE	STK	178	35E.	20 133	N32º 49' 14.00"	W103° 29' 17.01*	a statistic statistics of	3,983	
L 09097 (2) EXP	0	PHILLIPS PETROLEUM COMPANY	PRO	175	35E	21 142	N32º 49' 13.45"	W103" 27" 59.60"		3,967	

^B = Elevation interpolated from USGS topographical map based on referenced location.

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

IND = Industrial

OIL = Oil production

SAN = 72-12-1 Sanitary in conjunction with commercial use

COM = Commercial

STK = 72-12-1 Livestock watering

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

Shaded area indicates wells not shown in Figure 2

TABLE 3

Summary of Excavation Soil Sample Field Analyses and Labratory Analytical Results

ConocoPhillips Company

EVGSAU #22801-002 (UL-M, Section 28, T17S, R35E, Lea County, New Mexico)

NMOCD #; EPI Ref. #150034

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (C6-C12) (mg/Kg)	TPH (C12-C28) (mg/Kg)	TPH (C28-C35) (mg/Kg)	Total TPH (C6-C35) (mg/Kg)	Chloride (mg/Kg)
SBH	2	In Situ	13-Oct-11	30.4	280						ND	ND	ND	ND	208
swsw	1	Evcavated	13-Oct-11	36,5	3,200										
SWSW-A	1	Excavated	14-Oct-11	32.8	880										
SWSW-B	1	Excavated	14-Oct-11	39.3	720										
SWSW-C	1	In Situ	18-Oct-11	31.2	240	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.8
SESW	1	Excavated	13-Oct-11	40.3	1,440										
SESW-A	-1	Excavated	14-Oct-11	36,4	1,120										
SESW-B	1	Excavated	14-Oct-11	37.9	880										
SESW-C	1	In Situ	18-Oct-11	26.0	240			S = 1			ND	ND	ND	ND	15.4
MBH	2	Excavated	13-Dec-11	74.6			a de la compañía de la					All the second			
MBH-A	2.5	In Situ	13-Oct-11	30,1	160						ND	ND	ND	ND	ND
MESW	1	Excavated	13-Oct-11	37.7	280										
MESW-A	1	Excavated	14-Oct-11	683.0					# + 1						
MESW-B	1	Excavated	14-Oct-11	40.0	400					HAR					
MESW-C	1	Excavated	18-Oct-11	39.2	600										
MESW-D	1	Excavated	19-Oct-11		520		A second								

TABLE 3

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips Company

EVGSAU #22801-002 (UL-M, Section 28, T17S, R35E, Lea County, New Mexico)

NMOCD #; EPI Ref. #150034

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (C6-C12) (mg/Kg)	TPH (C12-C28) (mg/Kg)	TPH (C28-C35) (mg/Kg)	Total TPH (C6-C35) (mg/Kg)	Chloride (mg/Kg)
MESW-E	1	In Situ	19-Oct-11		320	**	**				<10.0	<10.0	••	<20.0	128
MWSW	1	In Situ	13-Oct-11	30.1	160	**		**	**		ND	ND	ND	ND	168
SSW	1	Excavated	14-Oct-11	27.8	2,040										
SSW-A	1	Excavated	14-Oct-11	40,8	2,080										
SSW-B	1	Excavated	18-Oct-11	21.7	400										
SSW-C	1	Excavated	19-Oct-11		400		Det								
SSW-D	1	In Situ	19-Oct-11		280			· · ·	1		<10.0	<10.0		<20.0	64.0
NSW	1	Excavated	14-Oct-11	930											
NSW-A	1	In Situ	18-Oct-11	29	360	4.4	**				ND	ND	ND	ND	121
NESW	1	Excavated	14-Oct-11	.55.0											
NESW-A	1	In Situ	18-Oct-11	31.7	320	ND	ND	ND	ND	ND	ND	ND	ND	ND	53.8
NWSW	1	1	14-Oct-11	42.9	240		**	••			ND	ND	ND	ND	164
NBH	2	Excavated	14-Oct-11	84.4											
NBH-A	2.5	In Situ	18-Oct-11	27.9	240	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.93
NM	IOCD Reme	dial Threshold	Goals	100		10				50				100	250

Bold values are in excess of NMOCD Remediation Threshold Goals

Nomenclature: BH = Bottom Hole; SW- Sidewall (N = North, S = South, E = East and W = West)

J = Detected, but below Reporting Limits. Therefore, result ia an estimated concentration (CLP J-Flag)

-- = Not Analyzed; ND - Not Detected; SB- Soil Boring; BG - Background Soil Boring



ATTACHMENTS

ATTACHMENT I

Photographs



Photograph No. 1 - Lease Sign



Photograph No. 2 - Looking northerly at Release and Overspray Areas



Photograph No. 3 - Looking northwesterly at Release Area and surface flow line



Photograph No. 4 – Looking northerly at excavation, surface flow lines and pipe supports



Photograph No. 5 – Looking northerly at excavation, side walls, surface flow lines and pipe supports



Photograph No. 6 – Looking northerly at backfilled Excavation and Overspray Areas

ATTACHMENT II

Laboratory Analytical Results

Analytical Report 429638

for Environmental Plus, Incorporated

Project Manager: David P. Duncan EVGSAU 2801-002

150034

18-OCT-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

Final 1.000





18-OCT-11

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

Reference: XENCO Report No: 429638 EVGSAU 2801-002 Project Address: UL-M, Sec. 28, T17S, R35E

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 429638. 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. 429638 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

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Sample Cross Reference 429638



Environmental Plus, Incorporated, Eunice, NM EVGSAU 2801-002

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	10-13-11 11:50		429638-001
S	10-13-11 12:40		429638-002
S	10-13-11 13:25		429638-003
	Matrix S S S	Matrix Date Collected S 10-13-11 11:50 S 10-13-11 12:40 S 10-13-11 13:25	Matrix Date Collected Sample Depth S 10-13-11 11:50 S S 10-13-11 12:40 S S 10-13-11 13:25 S



CASE NARRATIVE

Client Name: Environmental Plus, Incorporated Project Name: EVGSAU 2801-002



Project ID: 150034 Work Order Number: 429638 Report Date: 18-OCT-11 Date Received: 10/14/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



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Certificate of Analysis Summary 429638

Environmental Plus, Incorporated, Eunice, NM

Project Name: EVGSAU 2801-002



Project Id: 150034 Contact: David P. Duncan Project Location: UL-M, Sec. 28, T17S, R35E

Date Received in Lab: Fri Oct-14-11 03:58 pm

Report Date: 18-OCT-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id: Field Id: Depth:	429638- SBH	001	429638-0 MWSV	002 V	429638-0 MBH-/	003 A		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Oct-13-11	11:50	Oct-13-11	12:40	Oct-13-11	13:25		
Anions by E300	Extracted: Analyzed: Units/R1	Oct-17-11	18:01 R1	Oct-17-11	18:01 BI	Oct-17-11	18:01 BI		
Chloride	Critis RE.	208	4.47	168	4.68	ND	4.70		
Percent Moisture	Extracted: Analyzed:	Oct-17-11	14:52	Oct-17-11	14:52	Oct-17-11	14:52		
Percent Moisture	Units/KL:	6.03	1.00	10.3	1.00	10.6	1.00		
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	Oct-17-11 Oct-17-11 mg/kg	16:30 19:10 RL	Oct-17-11 Oct-17-11 mg/kg	16:30 19:34 RL	Oct-17-11 Oct-17-11 mg/kg	16:30 19:59 RL		
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	16.7	ND	16.8	Contract of the second second	
C12-C28 Diesel Range Hydrocarbons		ND	15.9	ND	16.7	ND	16.8		
C28-C35 Oil Range Hydrocarbons		ND	15.9	ND	16.7	ND	16.8		
Total TPH		ND	15.9	ND	16.7	ND	16.8		

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

100

Brent Barron II Odessa Laboratory Manager



Flagging Criteria

- 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 affect the recovery of the spike concentration. This condition could also affect 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 quantiation limit and above the detection limit.
- 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.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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Final 1.000



Project Name: EVGSAU 2801-002

Vork Orders : 429638, Lab Batch #: 872537	Sample: 429638-001 / SMP	Bate	Project I h: 1 Matrix	D: 150034 c: Soil		
Units: mg/kg	Date Analyzed: 10/17/11 19:10	SU	RROGATE R	ECOVERY	STUDY	1
трн ву	y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		72.4	99.8	73	70-135	
o-Terphenyl		43.5	49.9	87	70-135	3.7
Lab Batch #: 872537	Sample: 429638-002 / SMP	Batc	h: 1 Matrix	c: Soil		1.1
Units: mg/kg	Date Analyzed: 10/17/11 19:34	SU	RROGATE R	ECOVERY	STUDY	
ТРН Ву	v SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		77.5	100	78	70-135	
o-Terphenyl		47.2	50.1	94	70-135	-
Lab Batch #: 872537	Sample: 429638-003 / SMP	Batc	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 10/17/11 19:59	SU	RROGATE R	ECOVERY	STUDY	-
ТРН Ву	/ SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		86.3	99.9	86	70-135	
o-Terphenyl		50.9	50.0	102	70-135	
Lab Batch #: 872537	Sample: 612804-1-BLK / BL	K Bate	h: 1 Matrix	Solid		
Units: mg/kg	Date Analyzed: 10/17/11 18:46	SU	RROGATE R	ECOVERY	STUDY	
ТРН Ву А	SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		74.8	100	75	70-135	
o-Terphenyl		51.0	50.2	102	70-135	
Lab Batch #: 872537	Sample: 612804-1-BKS / BK	S Bate	h: 1 Matrix	:Solid	-	
Units: mg/kg	Date Analyzed: 10/17/11 17:56	SU	RROGATE R	ECOVERY S	STUDY	
ТРН Ву	SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	-	82.6	100	83	70-135	
o-Terphenyl		41.3	50.0	83	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: EVGSAU 2801-002

Vork Orders : 429638 Lab Batch #: 872537	, Sample: 612804-1-BSD / B	SD Bate	Project l h: 1 Matri	D: 150034 x: Solid							
Units: mg/kg	Date Analyzed: 10/17/11 18:21	SURROGATE RECOVERY STUDY									
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		75.9	100	76	70-135						
o-Terphenyl		41.1	50.2	82	70-135						
Lab Batch #: 872537	Sample: 429638-001 S / MS	Bate	h: 1 Matri	x:Soil							
Units: mg/kg	Date Analyzed: 10/18/11 02:13	SU	RROGATE R	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		106	100	106	70-135						
o-Terphenyl		55.9	50.1	112	70-135						
Lab Batch #: 872537	Sample: 429638-001 SD / M	ISD Batc	h: 1 Matrix	c:Soil							
Units: mg/kg	Date Analyzed: 10/18/11 02:37	SU	RROGATE R	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		94.2	99.6	95	70-135						
o-Terphenyl		50.3	49.8	101	70-135						

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



BS / BSD Recoveries

EV/CCATI 2001 002

		Pr	oject Na	me: EVO	GSAU 2	801-002						
Work Order #: 429638 Analyst: BRB Lab Batch ID: 872546 Units: mg/kg	Sample: 872546-1-BI	Da	ate Prepare Batch BLANI	ed: 10/17/20 #: 1 K/BLANK	11 SPIKE / F	BLANK S	PIKE DUP	Pro Date A	ject ID: nalyzed: Matrix: S RECOVI	150034 10/17/2011 Solid E RY STUI	DY	
Anions by Analytes	E300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		< 0.840	20.0	21.7	109	20.0	22.2	111	2	75-125	20	
Analyst: BBH Lab Batch ID: 872537 Units: mg/kg	Sample: 612804-1-Bl	Da	ate Prepare Batch BLANI	ed: 10/17/20 #: 1 K/BLANK	11 SPIKE / E	BLANK S	PIKE DUP	Date A	nalyzed: Matrix: S RECOVI	10/17/2011 Solid E RY STUI	DY	
TPH By SW80	015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Bik. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydro	carbons	<15.0	1000	733	73	1000	729	73	1	70-135	35	

864

86

1000

835

84

3

70-135

35

<15.0

1000

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes

C12-C28 Diesel Range Hydrocarbons

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Laboratories

Form 3 - MS Recoveries



Project Name: EVGSAU 2801-002

Work Order #: 429038						
Lab Batch #: 872546			Pro	oject ID:	150034	
Date Analyzed: 10/17/2011	Date Prepared: 10/1	7/2011	А	nalyst: B	RB	
QC- Sample ID: 429589-006 S	Batch #: 1		N	Matrix: S	olid	
Reporting Units: mg/kg	MATH	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	64.0	200	278	107	75-125	1
Lab Batch #: 872546						1
Date Analyzed: 10/17/2011	Date Prepared: 10/1	7/2011	A	nalyst: B	RB	
QC- Sample ID: 429638-001 S	Batch #: 1		N	Matrix: S	oil	
Reporting Units: mg/kg	MATH	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	208	106	322	108	75-125	

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference $[E] = 200^{\circ}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: EVGSAU 2801-002

Work Order # : 429638						Project II	D: 150034	ł			
Lab Batch ID: 872537 Date Analyzed: 10/18/2011 Reporting Units: mg/kg	QC- Sample ID: Date Prepared:	429638 10/17/2 M	-001 S 011 IATRIX SPIKI	Ba An E / MAT	tch #: alyst: RIX SPI	1 Matrix BBH KE DUPLICA	t: Soil	OVERY	STUDY		
TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	897	90	996	831	83	8	70-135	35	-
C12-C28 Diesel Range Hydrocarbons	15.8	1000	1100	108	996	1000	99	10	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: EVGSAU 2801-002

Work Order #: 429638

Lab Batch #: 872546				Project I	D : 150034	
Date Analyzed: 10/17/2011 18:01	Date Prepared	1:10/17/2011	l Ana	lyst:BRB		
QC- Sample ID: 429638-001 D	Batch #	f; 1	Mat	rix: Soil		
Reporting Units: mg/kg	Г	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	P	arent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			100
Chloride		208	208	0	20	
Lab Batch #: 872551						
Date Analyzed: 10/17/2011 14:52	Date Prepared	1:10/17/2011	Ana	lyst: WRU		
QC- Sample ID: 429584-011 D	Batch #	t: 1	Mat	rix: Solid		
Reporting Units: %	[SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	P	arent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		8 - 10	[B]			
Percent Moisture		5.72	5.96	4	20	

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

Company Name	FAA: [3/	Environments	Plus	Inc	-	-	-	-			-	Ren	nitl	nvo	oice To:		T	-	A	NAL	YS	IS F	REO	UES	T	-
DI Droject Man	agor	David P Dune	ran			-	-	-		-	-	_										-			T	-
Project mana	ager	DAVID P. DUIN	8				-							-												
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Client Company	*	Conoco Phillins	Comp	any		-	-					TTN		- 10	ha Catas											
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Project Reference	ce	Danny Deater	-	_			-		1	ovir	23 I	n N	lew	Me	vico 88260_9	564										
EPI Sampler Nar	T	Danny Deator	-		-	-	_	MAT	RIX	501	igit	PP	ESF	RV	SAMPLI	NG		1								
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LAB I.D.		SAMPLE I.D.		(G)RAB OR (C)C	# CONTAINERS	GROUND WATE	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (C	SULFATES (SO	Hd	TCLP	OTHER >>>	РАН		
1/1400	SBH	and the second		G	1	-	-	X			-		X		13-Oct-11	11:50	-	X	X	-		-			-	
2	MWSW		-	G	1	-		X					X		13-Oct-11	12:40	1	X	X	-		-			-	-
3	MRH.A			G	1	-		X					X		13-Oct-11	13:25		X	X	-		-				-
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Page 1 of 2

Page 13 of 14

Final 1.000



XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoeniz, San Antonio, Tampa

Document Title	Sample Rec	eipt Checklist	
Document No.:	SYS-SRC		
Revision/Date:	No. 01, 5/27/2	2010	
Effective Date:	6/1/2010	Page 1 of 1	

Prelogin / Nonconformance Report - Sample Log-In

Chenc C		10110M	
Date/Time:	10.1411	15.58	
Lab ID #:	42	9633	
Initials:	a	E	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	NA	
4. Chain of Custody present?	Ves	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	NO		
7. Chain of custody signed when relinquished / received?	YE	No		
8. Chain of custody agrees with sample label(s)?	Tes	No		*
9. Container labels legible and intact?	Tes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples property preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	_
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 M	lo.	Cooler 5 No.	
Ibs 5.5 °C Ibs °C Ibs	°C Ib	s °(lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:			
Corrective Action Take	en:		
			15
Chack all that apply:	Cooling process has been shorthy ofter se	mpling event and out of temperature	

condition acceptable by NELAC 5.5.8.3.1.a.1.

Client understands and would like to proceed with analysis

Analytical Report 429852

for Environmental Plus, Incorporated

Project Manager: David P. Duncan

EVGSAU 2801-002

150034

21-OCT-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00989): Arizona (AZ0758)

Final 1.000





21-OCT-11

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

Reference: XENCO Report No: 429852 EVGSAU 2801-002 Project Address: UL-M, Sec. 28, T17S, R35E

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 429852. 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. 429852 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

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Sample Cross Reference 429852



Environmental Plus, Incorporated, Eunice, NM EVGSAU 2801-002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NWSW (1')	S	10-14-11 10:10		429852-001
SWSW-C (1')	S	10-18-11 12:00		429852-002
SESW-C (1')	S	10-18-11 12:10		429852-003
NESW-A (1')	S	10-18-11 12:35		429852-004
NSW-A (1')	S	10-18-11 12:40		429852-005
NBH-A (2.5')	S	10-18-11 13:00		429852-006





Client Name: Environmental Plus, Incorporated Project Name: EVGSAU 2801-002



Project ID: 150034 Work Order Number: 429852 Report Date: 21-OCT-11 Date Received: 10/19/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-872845 TPH By SW8015 Mod SW8015MOD_NM

Batch 872845, C6-C12 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike.

Samples affected are: 429852-003, -001, -002, -005, -004, -006. The Laboratory Control Sample for C6-C12 Gasoline Range Hydrocarbons is within laboratory Control Limits

Batch: LBA-872871 BTEX by EPA 8021B SW8021BM

Batch 872871, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Ethylbenzene, Toluene, m_p-Xylenes recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 429852-002, -004, -006.

The Laboratory Control Sample for Toluene, o-Xylene, Ethylbenzene, m_p-Xylenes is within laboratory Control Limits



Certificate of Analysis Summary 429852

Environmental Plus, Incorporated, Eunice, NM

Project Name: EVGSAU 2801-002



Project Id: 150034 Contact: David P. Duncan Project Location: UL-M, Sec. 28, T17S, R35E

Date Received in Lab: Wed Oct-19-11 03:48 pm Report Date: 21-OCT-11

								Project Ma	nager: I	Brent Barron I	II		
	Lab Id:	429852-0	001	429852-0	02	429852-0	003	429852-	004	429852-0	05	429852-0	006
Analysis Requested	Field Id: Depth:	NWSW	(1')	SWSW-C	(1')	SESW-C	(1')	NESW-A	. (1')	NSW-A (1')	NBH-A (2	2.5')
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-14-11	10:10	Oct-18-11 1	2:00	Oct-18-11 1	12:10	Oct-18-11	12:35	Oct-18-11 1	2:40	Oct-18-11	13:00
Anions by E300	Extracted: Analyzed: Units/RL:	Oct-20-11	00:32 RL	Oct-20-11 (00:32	Oct-20-11 (00:32 RL	Oct-20-11	00:32 RL	Oct-20-11 0	00:32 RL	Oct-20-11	00:32 BL
Chloride		154	4.62	28.8	4.80	15.4	4.52	53.8	4.41	121	4.53	7.97	4.54
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:			Oct-20-11 1 Oct-20-11 2 mg/kg	15:00 22:44 RL			Oct-20-11 Oct-20-11 mg/kg	15:00 23:07 RL			Oct-20-11 Oct-20-11 mg/kg	15:00 23:30 RL
Benzene				ND	0.00114			ND	0.00104		-	ND	0.00107
Toluene				ND	0.00228			ND	0.00209			ND	0.00215
Ethylbenzene				ND	0.00114			ND	0.00104			ND	0.00107
m_p-Xylenes				ND	0.00228			ND	0.00209			ND	0.00215
o-Xylene				ND	0.00114			ND	0.00104			ND	0.00107
Total Xylenes				ND	0.00114			ND	0.00104			ND	0.00107
Total BTEX				ND	0.00114			ND	0.00104			ND	0.00107
Percent Moisture	Extracted: Analyzed: Units/RL:	Oct-19-11 %	17:15 RL	Oct-19-11 1 %	7:15 RL	Oct-19-11 1 %	17:15 RL	Oct-19-11 %	17:15 RL	Oct-19-11 1 %	17:15 RL	Oct-19-11 %	17:15 RL
Percent Moisture		9.18	1.00	12.5	1.00	7.18	1.00	4.68	1.00	7.19	1.00	7.57	1.00
TPH By SW8015 Mod	Extracted: Analyzed:	Oct-20-11 Oct-20-11	11:30 12:42	Oct-20-11 1 Oct-20-11 1	1:30 3:07	Oct-20-11 1 Oct-20-11 1	11:30 13:32	Oct-20-11 Oct-20-11	11:30 13:58	Oct-20-11 1 Oct-20-11 1	1:30 4:23	Oct-20-11 Oct-20-11	11:30 14:48
04 010 0 011 0	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.5	ND	17.1	ND	16.1	ND	15.7	ND	16.1	ND	16.2
C12-C28 Diesel Range Hydrocarbons		ND	16.5	ND	17.1	ND	16.1	ND	15.7	ND	16.1	ND	16.2
C28-C35 Oil Range Hydrocarbons		ND	16.5	ND	17.1	ND	16.1	ND	15.7	ND	16.1	ND	16.2
Total TPH		ND	16.5	ND	17.1	ND	16.1	ND	15.7	ND	16.1	ND	16.2

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.

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Brent Barron II Odessa Laboratory Manager

Final 1.000



Flagging Criteria

- 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 affect the recovery of the spike concentration. This condition could also affect 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 quantiation limit and above the detection limit.

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.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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Final 1.000



Project Name: EVGSAU 2801-002

Vork Orders : 429852 Lab Batch #: 872845	Sample: 429852-001 / SMP	Bate	Project I h: 1 Matrix	D: 150034		
Units: mg/kg	Date Analyzed: 10/20/11 12:42	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chlamastana	Analytes	02.4	00.0	02	70.125	
o-Tembenyl		54.7	50.0	109	70-135	
	Samelar 420852 002 / SMP	Data	h. 1 Matui	Soil	10 135	
Lab Batch #: 872845 Units: mg/kg	Date Analyzed: 10/20/11 13:07	SU	RROGATE R	ECOVERY S	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		90.9	99.8	91	70-135	
o-Terphenyl		59.7	49.9	120	70-135	
Lab Batch #: 872845	Sample: 429852-003 / SMP	Batc	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 10/20/11 13:32	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		84.0	99.7	84	70-135	
o-Terphenyl		53.7	49.9	108	70-135	
Lab Batch #: 872845	Sample: 429852-004 / SMP	Batc	h: 1 Matrix	: Soil		_
Units: mg/kg	Date Analyzed: 10/20/11 13:58	SU	RROGATE R	ECOVERY S	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1.011	Analytes			[10]		
I-Chlorooctane		75.1	99.6	75	70-135	
o-rerpinenyi		44.0	49.8	88	/0-135	
Lab Batch #: 872845	Sample: 429852-005 / SMP	Bate	h: Matrix	COVERY	TUDY	
Units: mg/kg	Date Analyzed: 10/20/11 14:23	30	KROGATE K	LCOVERTS	510DI	-
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	-	89.4	99.9	89	70-135	142 F
o-Terphenyl		54.7	50.0	109	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: EVGSAU 2801-002

Vork Orders : 429852 Lab Batch #: 872845	Sample: 429852-006 / SMP	Batc	Project I h: 1 Matrix	D: 150034 x: Soil		
Units: mg/kg	Date Analyzed: 10/20/11 14:48	su	RROGATE R	ECOVERY	STUDY	1. 354
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		77.6	99.8	78	70-135	
o-Terphenyl		48.8	49.9	98	70-135	
Lab Batch #: 872871	Sample: 429852-002 / SMP	Batc	h: 1 Matrix	c:Soil		
Units: mg/kg	Date Analyzed: 10/20/11 22:44	SU	RROGATE R	ECOVERY	STUDY	1.1
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0267	0.0300	89	80-120	
4-Bromofluorobenzene		0.0252	0.0300	84	80-120	
Lab Batch #: 872871	Sample: 429852-004 / SMP	Batc	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 10/20/11 23:07	SU	RROGATE R	ECOVERY	STUDY	S
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0260	0.0300	87	80-120	
4-Bromofluorobenzene		0.0270	0.0300	90	80-120	
Lab Batch #: 872871	Sample: 429852-006 / SMP	Batc	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 10/20/11 23:30	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0252	0.0300	84	80-120	
4-Bromofluorobenzene		0.0255	0.0300	85	80-120	
Lab Batch #: 872845	Sample: 612976-1-BLK / BL	K Bate	h: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 10/20/11 12:18	SU	RROGATE R	ECOVERY S	STUDY	1.2.1
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		95.9	100	96	70-135	1
o-Terphenyl	84	58.9	50.0	118	70-135	-

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: EVGSAU 2801-002

ork Orders : 429852	, Sample: 612998-1-BLK / B	LK Bat	Project I	D: 150034		
Units: mg/kg	Date Analyzed: 10/20/11 22:21	SU	RROGATE R	ECOVERY	STUDY	
BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0261	0.0300	87	80-120	
4-Bromofluorobenzene		0.0262	0.0300	87	80-120	
Lab Batch #: 872845	Sample: 612976-1-BKS / B	KS Bate	ch: 1 Matrix	x:Solid		
Units: mg/kg	Date Analyzed: 10/20/11 10:06	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		105	100	105	70-135	
o-Terphenyl		56.6	50.0	113	70-135	
Lab Batch #: 872871	Sample: 612998-1-BKS / B	KS Bate	ch: 1 Matrix	s:Solid		
Units: mg/kg	Date Analyzed: 10/20/11 20:50	SU	RROGATE R	ECOVERY	STUDY	
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0281	0.0300	94	80-120	
4-Bromofluorobenzene		0.0280	0.0300	93	80-120	
Lab Batch #: 872871	Sample: 612998-1-BSD / B	SD Bate	ch: 1 Matrix	c:Solid		
Units: mg/kg	Date Analyzed: 10/20/11 21:13	st	RROGATE R	ECOVERY	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0286	0.0300	95	80-120	
4-Bromofluorobenzene		0.0271	0.0300	90	80-120	
Lab Batch #: 872845	Sample: 429852-001 S / MS	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 10/20/11 15:13	SU	RROGATE R	ECOVERY	STUDY	
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		84.2	99.9	84	70-135	
o-Terphenyl		43.0	50.0	86	70-135	1.0

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: EVGSAU 2801-002

Vork Orders : 429852 Lab Batch #: 872871	, Sample: 429852-002 S / MS	Batc	Project I	D: 150034		
Units: mg/kg	Date Analyzed: 10/21/11 02:32	SU	RROGATE R	ECOVERY	STUDY	
BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0278	0.0300	93	80-120	
4-Bromofluorobenzene		0.0281	0.0300	94	80-120	
Lab Batch #: 872845	Sample: 429852-001 SD / N	ISD Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 10/20/11 15:38	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		93.2	99.8	93	70-135	
o-Terphenyl		49.9	49.9	100	70-135	
Lab Batch #: 872871	Sample: 429852-002 SD / M	ISD Bate	h: 1 Matrix	c: Soil		
Units: mg/kg	Date Analyzed: 10/21/11 02:55	SU	RROGATE R	ECOVERY	STUDY	
BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0275	0.0300	92	80-120	
4-Bromofluorobenzene		0.0281	0.0300	94	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B





Project Name: EVGSAU 2801-002

Work Order #: 429852		P	roject ID:			150034
Lab Batch #: 872845 Date Analyzed: 10/20/2011	Sample: 612976 Date Prepared: 10/20/2	-1-BKS 011	Matrix Analyst	: Solid : ASA		
Reporting Units: mg/kg	Batch #: 1	BLANK /	BLANK SP	IKE REC	COVERY S	STUDY
TPH By SW8015 Mod	Blank Result	Spike Added	Blank Spike Bosult	Blank Spike	Control Limits	Flags
Analytes	181	[0]	[C]	[D]	701	
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	818	82	70-135	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1060	106	70-135	

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



BS / BSD Recoveries

Project Name: EVGSAU 2801-002

Work Order #: 429852 Analyst: ASA		Da	te Prepare	ed: 10/20/20	11			Proj Date Ar	ject ID: 1 nalyzed: 1	50034 0/20/2011		
Lab Batch ID: 872871	Sample: 612998-1-BI	KS	Batch	1 #: 1					Matrix: S	Solid		
Units: mg/kg	[BLAN	K/BLANK	SPIKE / E	BLANK S	PIKE DUPI	LICATE I	RECOVI	ERY STUD	Ŷ	
BTEX by EPA Analytes	8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene		< 0.00100	0.100	0.111	111	0.125	0.128	102	14	70-130	35	
Toluene		< 0.00200	0.100	0.114	114	0.125	0.129	103	12	70-130	35	
Ethylbenzene		< 0.00100	0.100	0.118	118	0.125	0.135	108	13	71-129	35	
m_p-Xylenes		< 0.00200	0.200	0.236	118	0.250	0.270	108	13	70-135	35	
o-Xylene		< 0.00100	0.100	0.117	117	0.125	0.136	109	15	71-133	35	1
Analyst: BRB Lab Batch ID: 872710	Sample: 872710-1-BI	Da	te Preparo Batch	ed: 10/20/20	11			Date A	nalyzed:) Matrix: S	0/20/2011 Solid		
Units: mg/kg		A.J	BLAN	K/BLANK	SPIKE / F	BLANK S	PIKE DUPI	LICATE I	RECOVI	ERY STUD	Ŷ	
Anions by E Analytes	300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<0.840	20.0	22.0	110	20.0	22.0	110	0	75-125	20	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes

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Form 3 - MS Recoveries



Project Name: EVGSAU 2801-002

Work Order #: 429852						
Lab Batch #: 872710			Pro	ject ID	: 150034	
Date Analyzed: 10/20/2011	Date Prepared: 10/2	0/2011	А	nalyst: B	BRB	
QC- Sample ID: 429606-006 S	Batch #: 1		N	Aatrix: S	olid	
Reporting Units: mg/kg	MATH	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	499	200	723	112	75-125	
Lab Batch #: 872710						
Date Analyzed: 10/20/2011	Date Prepared: 10/2	0/2011	А	nalyst: B	BRB	
QC- Sample ID: 429736-001 S	Batch #: 1		N	Aatrix: S	olid	
Reporting Units: mg/kg	MATH	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	529	400	974	111	75-125	

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference $[E] = 200^{\circ}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: EVGSAU 2801-002

Work Order #: 429852						Project II	D: 150034	í.,			
Lab Batch ID: 872871 Date Analyzed: 10/21/2011	QC- Sample ID: Date Prepared:	429852- 10/20/2	-002 S 011	Ba An:	tch #: alyst:	l Matrix ASA	: Soil				
Reporting Units: mg/kg		M	IATRIX SPIKI	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00115	0.115	0.0843	73	0.114	0.0812	71	4	70-130	35	
Toluene	< 0.00229	0.115	0.0826	72	0.114	0.0775	68	6	70-130	35	Х
Ethylbenzene	<0.00115	0.115	0.0826	72	0.114	0.0760	67	8	71-129	35	Х
m_p-Xylenes	< 0.00229	0.229	0.160	70	0.228	0.146	64	9	70-135	35	Х
o-Xylene	<0.00115	0.115	0.0762	66	0.114	0.0686	60	10	71-133	35	Х
Lab Batch ID: 872845 Date Analyzed: 10/20/2011	QC- Sample ID: Date Prepared:	429852 10/20/2	-001 S 011	Ba An	tch #: alyst:	l Matri ASA	x: Soil				
Reporting Units: mg/kg		M	IATRIX SPIKI	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<16.5	1100	750	68	1100	839	76	11	70-135	35	X
C12-C28 Diesel Range Hydrocarbons	<16.5	1100	925	84	1100	993	90	7	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: EVGSAU 2801-002

Work Order #: 429852

Lab Batch #: 872710 Date Analyzed: 10/20/2011 00:32 QC- Sample ID: 429736-001 D Reporting Units: mg/kg	Date Prepared: 10/20/2011 Batch #: 1	Ana Ma	Project I lyst: BRB trix: Solid	D: 150034	OVERV
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	529	513	3	20	
Lab Batch #: 872709 Date Analyzed: 10/19/2011 14:25 QC- Sample ID: 429746-001 D Reporting Units: %	Date Prepared: 10/19/2011 Batch #: 1 SAMPLE /	Ana Mat SAMPLE	lyst: BRB rix: Solid DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.24	3.30	2	20	

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

| r David P. Duncan
P.O. BOX 1558
Eunice New Mexico
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Environmental Plus, Inc.

Chain of Custody Form

Page 1 of 2

Page 16 of 17

Final 1.000



XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Date/Time:	10.19.11 15:48	
Lab ID # :	429852	
Initials:	GE	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yee	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	(NA)	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	NO		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		101
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		1.
11. Samples in proper container / bottle?	(Yes	No		
12. Samples property preserved?	(Yes?	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	NA	
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4	No.	Cooler 5 No.	
ibs 2,0°c ibs °c ibs	°C	os °(C Ibs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:		
Regarding:	· · · · · · · · · · · · · · · · · · ·			
Corrective Action Taken	L			
			-	• •
Check all that apply:	Cooling process has begun shortly after sa	mpling event and out of temperature		

condition acceptable by NELAC 5.5.8.3.1.a.1.

Client understands and would like to proceed with analysis

Final 1.000



October 21, 2011

David P. Duncan Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: EVGSAU 2801-002

Enclosed are the results of analyses for samples received by the laboratory on 10/20/11 8:37.

Cardinal Laboratories is accredited through Texas NELAP for:

 Method SW-846 8021
 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

 Method SW-846 8260
 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

 Method TX 1005
 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

CARDINAL

Analytical Results For:

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

Received:	10/20/2011	Sampling Date:	10/19/2011
Reported:	10/21/2011	Sampling Type:	Soil
Project Name:	EVGSAU 2801-002	Sampling Condition:	Cool & Intact
Project Number:	150034	Sample Received By:	Celey D. Keene
Project Location:	UL-M, SEC. 28, T17S, R35E		

Sample ID: SSW-D (1') (H102271-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP		% Recovery	True Value QC		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS			RPD	Qualifier
Chloride	64.0	16.0	10/20/2011	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/21/2011	ND	172	85.9	200	3.64	
DRO >C10-C28	<10.0	10.0	10/21/2011	ND	164	81.8	200	3.95	
Surrogate: 1-Chlorooctane	93.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	94.1	% 57.6-15	8						

Sample ID: MESW-E (1') (H102271-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/20/2011	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/21/2011	ND	172	85.9	200	3.64	
DRO >C10-C28	<10.0	10.0	10/21/2011	ND	164	81.8	200	3.95	
Surrogate: 1-Chlorooctane	91.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	87.9	% 57.6-15	8						

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 whotsoever 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 profils 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 dam is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall note be reproduced except in full with writen approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remetly for any daim 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 whitsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall note be reproduced except in full with writen approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Chain of Custody Form

Environmental Plus, Inc. 2100 Avenue O, Eunice, NM 88231

(575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

LAB:

Company Name	Environmental Plu	Environmental Plus, Inc.					Remit Invoice To:					ANALYSIS REQUEST												
EPI Project Manage	er David P. Duncan	No. of Concession, Name		-		-	Participan	No.			-					-							T	
Mailing Address	P.O. BOX 1558		-						-			5	la illian a											
City, State, Zip	Eunice New Mexico	88	231						-0	ne	x	OF	nilips											
EPI Phone#/Fax#	575-394-3481 / 575-	394	-260	1	Al and all and																			
Client Company	ConocoPhillips Com	pany	1	Personal days in the		1	ATTN: Mr. John Gates																	
Facility Name	EVGSAU 2801-002				Concernant, Mar	1					HS	ERI	ead											
Location	UL-M, Sec. 28, T17	S, R	35E		and an other	1			Co	noc	oPh	illips	s Company											
Project Reference	150034					1			29	Vac	uum	1 Co	mplex Lane											
EPI Sampler Name	Danny Deaton					1	L	ovir	ngto	on, N	lew	Me	xico 88260-96	64										
		Τ.	Γ	T		MA	RIX	and division of	C. may him	PR	ESE	RV.	SAMPLI	NG	1									
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4")	PH	TCLP	OTHER >>>	PAH		
1 1 SS	SW-D (1')	G	1	Γ		X					X		19-Oct-11	13:05		X	X							
22 ME	ESW-E (1')	G	1	Γ		X					X		19-Oct-11	13:10	T	X	X							
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Sampler Relinquished: <u>Des my Dea</u> Relinquished by: <u>Relinquished by:</u> Delivered by:	10/20/2011 Time 7:00 10/20/2011 Time 7:3 Samp Green	Rec		By: By: (By: (lact No		9 02 . iff) [[]		(ecked	By:		E-n Joh	nail n in.W.	esults to: ddunc Gates@conoco	canepi@gi phillips.co	mail. om	com	8							
	-#2	26																					Pa	ae 4 of

Page 4 of 4

ATTACHMENT III

Copy of Initial NMOCD Form C-141 Final NMOCD Form C-141

District 1 1625 N. French Dr., Hobbs, NM 88240 District III 1301 W. Grand Avenue, 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 Form C-141 Revised October 10, 2003

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

			Rele	ease Notific	atio	on and Co	orrective A	ction							
					01	PERATOR		🖂 Ini	ial Report		Final Report				
Name of C Address 3 Facility Na	ompany C 300 North me EVGS	ConocoPhilli A St. Bldg SAU 2801-00	ps Comp 6, Midla)2	any nd, TX 79705-5	5406	Contact John W. Gates Telephone No. 505.391.3158 Facility Type Oil and Gas									
Surface Ow	mer State	Of New M	exico	Mineral C)wner	State Of N	ew Mexico	Lease	No 30025	26225	00				
				LOCA	TIC	N OF RE	FASE								
Unit Letter M	Section 28	Township 17S	Range 35E	Feet from the	Nort	th/South Line	Feet from the	East/West Line	County Lea						
2				Latitude		Longi	tude								
107.34				NAT	URI	E OF REL	EASE								
Type of Rele	ase				Voi	lume of Releas	e	Volume	Recovered						
Crude Oil	& Produc	ed water			15 Det	4001 (15011, 4	Occurrence	(150il, 0	Hour of Die	cover					
The releas	e origination nch steel s	ed from a sp surface flow	lit behin line due	d a pipe collar to suspected	08/	03/11 0700	occurrence	08/03/1	0730	scovery					
Was Immedi	ate Notice (Given? Zes 🗌 No	Not 1	Required	If YES, To Whom?										
By Whom?					Dat	Date and Hour									
Was a Water	course Read	ched?	Yes 🛛	No	IfY	ES, Volume In	mpacting the Wate	ercourse.							
If a Watercon	urse was Im	pacted, Descri	ibe Fully.*												
Describe Cau The release	originate	em and Reme d from a sp	dial Action	n Taken.* d a pipe collar o	on a 2	2 3/8 inch ste	el surface flow	line due to sus	ected fatig	ue.					
60'x8'x1" a	rea of pas	ture land. A	vacuum	truck was call	led ar	$d \sim 15$ bbls of	of oil was recov	ered.							
I hereby certi regulations al public health should their c or the environ federal, state,	fy that the i l operators or the envir operations h ment. In a or local law	nformation gi are required to conment. The ave failed to a ddition, NMO vs and/or regu	ven above o report an acceptanc dequately CD accept lations.	is true and compl d/or file certain re e of a C-141 repo investigate and re tance of a C-141 r	elease rt by the media report	the best of my notifications ar he NMOCD mate contamination does not relieve	knowledge and u ad perform correc arked as "Final Re on that pose a three e the operator of r	nderstand that pu tive actions for re cport" does not re eat to ground wate responsibility for	rsuant to NM leases which lieve the ope er, surface wa compliance w	OCD r may en rator of ater, hu with any	ules and ndanger f liability man health y other				
Signature:	que	in A	Jat			OIL CONSERVATION DIVISION									
Printed Name	: John W.	Gates	~			Approved by	District Supervise	or:		_					
Title: HSEF	Lead					Approval Dat	e:	Expiration	Date:						
E-mail Addre	ss: John.W	.Gates@cond	cophillip	s.com	_	Conditions of	Approval:		Attached						

 Date:
 08/08/11
 Phone:
 505.391.3158

 •
 Attach Additional Sheets If Necessary

District I				Stat	a of	New Movies						
1625 N. French I District II	Dr., Hobbs, N	IM 88240		Energy Mine	rals	and Natural R	esources		Form C-1 Revised October 10, 20			
1301 W. Grand A District III	Avenue, Artes	sia, NM 88210		Oil Co	nser	vation Divisi	ion	Submit	Submit 2 Copies to approp			
1000 Rio Brazos District IV	Road, Aztec,	, NM 87410		1220 S	outh	St. Francis	Distr	with Rule	accordance 116 on back			
1220 S. St. Franc	is Dr., Santa	Fe, NM 87505		Sant	ta Fe	e, NM 87505	1	side of form				
		ŀ	Release	e Notificatio	on a	nd Correc	tive Action					
NT CO	7	0	DL '11'	OPERAT	OR	Cartante In	Initia	Report	🖂 Fin	al Repo		
Name of C	Company	y: Conocol	Phillips	Company		Contact: Jol	M W. Gates	2159				
79705-540	5500 NO	nii A Si.	, Diug.	o, Mildialid, 17	x.	relephone r	10 (575) 591-	5156				
Facility N	ame: EV	GSAU 28	01-002			Facility Typ	e: Production	Flow Line				
Surface O	whom C	tate of Nor	v Movie	20	_	Minor	al Owner:	Looso	Jo API #	30.025		
Surface O	witer: 5	tate of new	w WICKI	.0		State of	f New Mexico	262250	0. ATT#	30-023-		
				LOCATIO	ON (OF RELEAS	S E					
Unit Letter M	Section 28	Township 17S	Range 35E	Feet from the		South Line	Feet from the	West Line	. (County Lea		
	1.2	Latitu	de: <u>N32</u>	<u>e 46' 49.99"</u>	E OI	Longitude	: W103° 28' 11	.64"				
Type of Relea	ase: Crude	Oil and Produ	ced Water	NATUKI	E OI	Volume of Re	lease: 15.4-bbl (15-	Volume R	ecovered:	15-oil-0-		
Course of Dal	Deles	an eniginated	from a sml	it habind ning calls		oil, 0.4-water	n of Oceaning and	water				
a 2 3/8" steel	surface flow	v line due to si	uspected f	atigue	ir on	8/03/11 @ 7:0	00 AM	8/03/11 @	7:30 AM	covery:		
Was Immedia	ate Notice (Given?	Yes 🗌	No 🛛 Not Requ	ired	If YES, To W	hom?					
By Whom?						Date and Hou	ir:					
Was a Water	course Rea	iched?	Yes 🖂	No		If YES, Volur N/A	ne Impacting the V	Vatercourse:				
If a Waterco	urse was In	npacted, Desc	ribe Fully	y. N/A								
Depth to Gro Describe Cau suspected fatig damage, GPS Describe Are a Remediation 19-11 EPI exc were collected for analyses o in compliance backfill the exc deep drill seed I hereby certifi and regulation endanger publ operator of lia surface water, for compliance Signature: Printed Name Title: HSER I	a Affected a Affected a Proposal ta a vareau, pho a Affected a Proposal ta cavated, load f from the re f BTEX, TF with NMO ccavation; d ding disturb fy that the ir is all operat the health or bility shoul human hea e with any of e: John W. Lead	> 60- feet be lem and Rem in truck arrived bograph the re and Cleanup o the NMOCE ded and transpelease areas sid 2H and chlorid CD Goals, bas isturbed areas ed areas when nformation giv ors are require the environm d their operati- lith or the environm d their operati- other federal, s Gates	low groun edial Acti d at release Action T D on 9-23- borted ±53 bewalls and le concent ckfill oper were cont weather/g ren above ed to repor ent. The a ons have b	d surface (bgs) on Taken.* Releas e area and recovered and prepare a Rem aken.* After comp 11; upon approval, 52-cubic yards of in d bottom on 10-13- rations (C-o-C); up ations commenced; oured to prevent w ground conditions a is true and complet t and/or file certain acceptance of a C-1 failed to adequately In addition, NMOO cal laws and/or reg	se origi d 15-l hediati EPI r npact 11, 10 on re- ; on 1 ind/w re coi e to th releas 41 re- v inve- CD ac ulatio	ginated from a sp bbls of fluid; CO ion Proposal g the above descr nobilized equipm ed material to Co 0-14-11 & 10-18- ceipt of laborator 0-24-11 ±532 cul ater erosion and nducive to vegeta the best of my kno se notifications a port by the NMO stigate and remed ceptance of a C- ms. <u>OI</u> Approved by En	lit behind collar on a CP notified an envir ibed activities, Envir ent to the job site or introlled Recovery, 1 -11, 10-19-11 and re bic yards of clean to promote natural dra tive growth possib owledge and underst ind perform correcti CD marked as "Fina diate contamination 141 report does not L CONSERVA	a 2 3/8" steel stormental com ronmental Plu n 10-10-11; fr func., (CRI) for mitted to an in licating C-o-(p soil were in inage; EPI rec le extending in and that pursu ve actions for al Report" doc that pose a thr relieve the opp ATION DI neer: Expiration	surface flow apany (EPI) is, Inc., (EPI om 10-12-11) r disposal; so ndependent I C concentration ported and the commends diate sprintiant to NMC releases while the source of responses of the source releases while the source of the source vision of the source of the source vision of the source of the source vision of the source of the source of the source vision of the source	line due to to assess) submitted 1 thru 10- bil samples laboratory ions were used to iscing and ag 2012. OCD rules ich may the d water, ponsibility		
E-mail Addro	ess: John.W	.Gates@cono	cophillips.	com		Conditions of A		Attached				
Date: 11-08-	11	р	hone: (57	5) 391-3158				Attached				

* Attach Additional Sheets If Necessary