



17 May 2010

Mr. Geoffrey Leking  
Environmental Engineer  
New Mexico Oil Conservation Division  
1625 North French Drive  
Hobbs, New Mexico 88240

**RE: Remediation Proposal**  
**ConocoPhillips – EVGSAU #2913-006**  
**UL-P (SE ¼ of the SE ¼) of Section 29, T 17 S, R 35 E**  
**Longitude: 32° 48' 07.46"; Latitude: 103° 28' 33.70"**  
**NMOCD Ref. #1RP-2459-0; EPI Ref. #190028**

Dear Mr. Leking:

On March 14, 2010 at 12:30 p.m. approximately 7-barrels (bbls) of produced water and 3-bbls of petroleum products were released from a 2-7/8" diameter steel surface flow line. Approximately 7-bbls of produced water and 3-bbls of petroleum product were recovered. The combined fluids covered a release area of ±5,500 square feet. After initial vacuuming of fluids, ConocoPhillips retained the services of Environmental Plus, Inc., (EPI) to GPS, take photographs and delineate the release area. This letter report documents the results of the delineation activities and provides a *Remediation Proposal*.

### Site Background

The Site is located in UL-P (SE ¼ of the SE ¼) of Section 29, T17S, R35E at an approximate elevation of 3,964 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 *New Mexico Office of the State Engineers* 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 72 feet below ground surface (bgs). Based on available information, it was determined the distance between the impacted soil and groundwater is less than 70 feet. Utilizing this information, the 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
TPH	1,000 parts per million

Chloride residuals may not be capable of impacting local Groundwater above NMWQCC of 250 mg/L

Additional  
Information  
was submitted

approved by:  
Geoffrey Leking  
Environmental Engineer  
NMOCD-Hobbs  
1105110



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## **Field Work**

On April 22, 2010 EPI and Straub Corporation (Stanton, Texas) mobilized at the Site to direct the locale and depth of four (4) soil borings. Three (3) soil borings were advanced within confines of the release area while the fourth (4<sup>th</sup>) was used as background reference (Ref. Figure 4). Prior to advancement of soil borings, soil samples were to be collected at two (2) foot intervals initially and then a five (5) foot increments thereafter to total depth (TD) of each soil boring. However, this format was followed on the background reference soil boring (BG-1) which was advanced to a TD of 20-feet below ground surface (bgs). SB-1, SB-2 and SB-3 were advanced to depths of 5-feet bgs where TPH and chloride concentrations were below NMOCD Remedial Threshold goals (Goals). Information regarding lithology of soil borings is provided in Attachment III, *Soil Boring Logs*.

A portion of each soil sample was field analyzed for organic vapor and chloride concentrations. Soil samples collected for field testing of organic vapors were placed in a self-sealing polyethylene bag and allowed to equilibrate to ~70<sup>o</sup> F. The samples were then tested for organic vapor concentrations utilizing an MiniRae™ photoionization detector (PID) equipped with a 10.6 electron-volt (eV) lamp. Chloride concentrations were analyzed in the field with use of a LaMotte Chloride Kit (titration method).

Soil samples designated for laboratory analyses were immediately inserted into laboratory provided containers, placed into coolers, iced down and transported to Cardinal Laboratory, Hobbs, New Mexico, for quantification of BTEX (benzene, toluene, ethylbenzene and total xylenes); TPH [Gasoline Range Organics (GRO) and Diesel Range Organics (GRO)] and chloride concentrations.

## **Analytical Data**

A review of Table #2, *Summary of Soil Boring Soil Sample Analytical Results*, indicates both TPH and chloride concentrations above NMOCD Remedial Threshold goals are surficial. This is indicative that oil/produced water fluids were recovered quickly preventing deeper penetration into the soil.

## **Site Remedial Proposal**

EPI proposes remediating release areas surrounding the lease roads. Impacted material will be excavated to whatever depth and width is necessary to remove impacted soil above Goals for TPH (<1,000 mg/Kg) and chloride (250mg/Kg) concentrations. In reviewing Table 2, vertical depth of excavation should be limited to a maximum of five (5) feet bgs. Lateral excavation will proceed from shoulders of caliche lease roads and extend peripherally until sidewalls indicate Goals have been achieved. In any case, EPI will excavate minimum depth and width necessary to remove impacted material plus one (1) foot as noted on initial NMOCD Form C-141. Impacted material will be transported to Controlled Recovery, Inc., (CRI) for disposal.

A portion of soil samples collected from sidewalls and bottom of excavation will be field analyzed for TPH and chloride concentrations. After attaining TPH and chloride concentrations below

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Goals, the second portion will be placed into laboratory provided containers, stored in coolers, iced down and transported to an independent laboratory for analyses of BTEX, TPH and chloride concentrations. Upon receipt of laboratory analytical results indicating Goals have been achieved, excavated areas will be backfilled.

Excavated areas will be backfilled with clean topsoil imported from a private pit located in the Buckeye area. Said top soil will be free of large clods, rocks and deleterious material. After backfill operations are complete, the entire disturbed areas will be contoured to promote natural drainage and prevent wind/water erosion. Disturbed areas will be drill seeded with a grass mixture approved by the NMSLO.

Slightly impacted material in the overspray areas (ref. Figure #3) will be scraped surfically to remove discolored material. The bared areas will be sprayed with a six (6) percent solution of Micro@Blaze and a thin layer of clean top soil applied over the disturbed areas. Contouring and seeding of these areas will conform to previously described methods.

Due to density of caliche and vehicle usage, EPI does not recommend major remediation of the intersection of the north-south and east-west caliche lease roads. Although not delineated, lease roads should contain TPH and chloride impacts to a depth less than surrounding release areas. With groundwater noted at approximately seventy-two (72) feet, chances of contamination are remote. However, the long discolored "fingers" on the east side of the north-south and middle of the east-west lease roads will be remediated (ref. Figure #3). The "fingers" will be excavated approximately two (2) feet deep and to a width which removes the discolored impacted areas. Following excavation, the areas will be immediately backfilled with caliche and wheel rolled for compaction. Excavation of the "fingers" on the north-south lease road will be confined to an area which does not significantly impede traffic and will not remain open overnight.

Should you have any technical questions, concerns or need additional information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or via email at [dduncanepi@gmail.com](mailto:dduncanepi@gmail.com). Official communications should be directed to Mr. John Gates at (575) 391-3158 (office), (575) 390-4821 (cellular) or via email at [John.W.Gates@conocophillips.com](mailto:John.W.Gates@conocophillips.com). with correspondence addressed to:

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

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# Analytical Report 370244

for

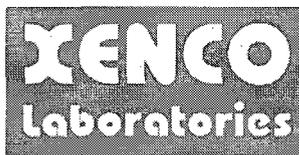
## Environmental Plus, Incorporated

**Project Manager: David P. Duncan**

**EVGSAU 2913-006**

**150028**

**27-APR-10**



**12600 West I-20 East Odessa, Texas 79765**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), 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 (AAL11), 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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295)



27-APR-10

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

Reference: XENCO Report No: **370244**  
**EVGSAU 2913-006**  
Project Address: UL-P, Sec. 29, 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 370244. 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. 370244 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 370244**



**Environmental Plus, Incorporated, Eunice, NM**  
EVGSAU 2913-006

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
BG-1 (2')	S	Apr-22-10 10:12		370244-001
BG-1 (5')	S	Apr-22-10 10:13		370244-002
BG-1 (10')	S	Apr-22-10 10:16		370244-003
BG-1 (15')	S	Apr-22-10 10:20		370244-004
BG-1 (20')	S	Apr-22-10 10:22		370244-005
SB-1 (2')	S	Apr-22-10 12:15		370244-006
SB-1 (5')	S	Apr-22-10 12:19		370244-007
SB-2 (2')	S	Apr-22-10 11:40		370244-008
SB-2 (5')	S	Apr-22-10 11:45		370244-009
SB-3 (2')	S	Apr-22-10 10:45		370244-010
SB-3 (5')	S	Apr-22-10 10:51		370244-011



## CASE NARRATIVE

*Client Name: Environmental Plus, Incorporated*

*Project Name: EVGSAU 2913-006*



*Project ID: 150028*

*Work Order Number: 370244*

*Report Date: 27-APR-10*

*Date Received: 04/23/2010*

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**Sample receipt non conformances and Comments:**

None

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**Sample receipt Non Conformances and Comments per Sample:**

None

**Analytical Non Conformances and Comments:**

Batch: LBA-804002 Percent Moisture

None

Batch: LBA-804004 Percent Moisture

None

Batch: LBA-804115 Anions by E300

None

Batch: LBA-804118 TPH By SW8015 Mod

None

**TABLE 2**  
**Summary of Soil Boring Soil Sample Analytical Results**

ConocoPhillips

EVGSAU #2913-006 (UL-P, Section 29, T17S, R35E, Lea County, New Mexico)

NMOCD #: EPI Ref. #150028

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)
BG-1	2	In Situ	22-Apr-10	0.90	80	--	--	--	--	--	ND	ND	ND	ND	12.1
BG-1	5	In Situ	22-Apr-10	1.70	80	--	--	--	--	--	ND	ND	ND	ND	6.96
BG-1	10	In Situ	22-Apr-10	1.30	80	--	--	--	--	--	ND	ND	ND	ND	4.93
BG-1	15	In Situ	22-Apr-10	0.70	80	--	--	--	--	--	ND	ND	ND	ND	8.24
BG-1	20	In Situ	22-Apr-10	0.90	80	--	--	--	--	--	ND	ND	ND	ND	31.6
SB-1	2	In Situ	22-Apr-10	106	480	--	--	--	--	--	72.1	111	ND	183	369
SB-1	5	In Situ	22-Apr-10	13.8	160	--	--	--	--	--	ND	ND	ND	ND	32.9
SB-2	2	In Situ	22-Apr-10	535	160	--	--	--	--	--	281	646	26.0	953	53.3
SB-2	5	In Situ	22-Apr-10	27.3	160	--	--	--	--	--	ND	50.8	ND	50.8	ND
SB-3	2	In Situ	22-Apr-10	157	1,760	--	--	--	--	--	110	339	16.8	466	1,560
SB-3	5	In Situ	22-Apr-10	27.3	240	--	--	--	--	--	ND	26.2	ND	26.2	15.8
NMOCD Remedial Threshold Goals				100		10				50				100	250 <sup>1</sup>

Bolded values are in excess of NMOCD Remediation Thresholds

<sup>1</sup> Chloride residuals may not be capable of impacting groundwater above NMWQCC Ground Water Standards of 250 mg/L

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

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



# Certificate of Analysis Summary 370244

Environmental Plus, Incorporated, Eunice, NM

Project Name: EVGSAU 2913-006



Project Id: 150028

Contact: David P. Duncan

Date Received in Lab: Fri Apr-23-10 10:52 am

Report Date: 27-APR-10

Project Location: UL-P, Sec. 29, T17S, R35E

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	370244-001	370244-002	370244-003	370244-004	370244-005	370244-006
	Field Id:	BG-1 (2')	BG-1 (5')	BG-1 (10')	BG-1 (15')	BG-1 (20')	SB-1 (2')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Apr-22-10 10:12	Apr-22-10 10:13	Apr-22-10 10:16	Apr-22-10 10:20	Apr-22-10 10:22	Apr-22-10 12:15
<b>Anions by E300</b>	Extracted:						
	Analyzed:	Apr-26-10 15:52					
	Units/RL:	mg/kg RL					
Chloride		12.1 5.38	6.96 5.22	4.93 4.59	8.24 5.32	31.6 4.50	369 8.89
<b>Percent Moisture</b>	Extracted:						
	Analyzed:	Apr-23-10 17:00					
	Units/RL:	% RL					
Percent Moisture		22.0 1.00	19.5 1.00	8.50 1.00	21.0 1.00	6.65 1.00	5.49 1.00
<b>TPH By SW8015 Mod</b>	Extracted:	Apr-23-10 12:45					
	Analyzed:	Apr-24-10 01:35	Apr-24-10 02:08	Apr-24-10 02:40	Apr-24-10 03:11	Apr-24-10 03:42	Apr-24-10 04:14
	Units/RL:	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		ND 19.2	ND 18.6	ND 16.4	ND 19.0	ND 16.1	72.1 15.9
C12-C28 Diesel Range Hydrocarbons		ND 19.2	ND 18.6	ND 16.4	ND 19.0	ND 16.1	111 15.9
C28-C35 Oil Range Hydrocarbons		ND 19.2	ND 18.6	ND 16.4	ND 19.0	ND 16.1	ND 15.9
Total TPH		ND 19.2	ND 18.6	ND 16.4	ND 19.0	ND 16.1	183 15.9

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



# Certificate of Analysis Summary 370244

Environmental Plus, Incorporated, Eunice, NM

Project Name: EVGSAU 2913-006



Project Id: 150028

Contact: David P. Duncan

Project Location: UL-P, Sec. 29, T17S, R35E

Date Received in Lab: Fri Apr-23-10 10:52 am

Report Date: 27-APR-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	370244-007	370244-008	370244-009	370244-010	370244-011	
	<i>Field Id:</i>	SB-1 (5')	SB-2 (2')	SB-2 (5')	SB-3 (2')	SB-3 (5')	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Apr-22-10 12:19	Apr-22-10 11:40	Apr-22-10 11:45	Apr-22-10 10:45	Apr-22-10 10:51	
<b>Anions by E300</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-26-10 15:52					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		32.9 4.76	53.3 4.51	ND 4.50	1560 22.3	15.8 5.43	
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-23-10 17:00					
	<i>Units/RL:</i>	% RL					
Percent Moisture		11.7 1.00	6.81 1.00	6.70 1.00	5.84 1.00	22.6 1.00	
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	Apr-23-10 12:45					
	<i>Analyzed:</i>	Apr-24-10 04:45	Apr-24-10 05:15	Apr-24-10 05:45	Apr-24-10 06:47	Apr-24-10 07:19	
	<i>Units/RL:</i>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		ND 17.0	281 16.0	ND 16.1	110 15.9	ND 19.5	
C12-C28 Diesel Range Hydrocarbons		ND 17.0	646 16.0	50.8 16.1	339 15.9	26.2 19.5	
C28-C35 Oil Range Hydrocarbons		ND 17.0	26.0 16.0	ND 16.1	16.8 15.9	ND 19.5	
Total TPH		ND 17.0	953 16.0	50.8 16.1	466 15.9	26.2 19.5	

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



# 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 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 and above the SQL.
- 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
- \* Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



# Form 2 - Surrogate Recoveries

Project Name: EVGSAU 2913-006

Work Orders : 370244,

Project ID: 150028

Lab Batch #: 804118

Sample: 561782-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/23/10 23:33

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	99.7	88	70-135	
o-Terphenyl	36.9	49.9	74	70-135	

Lab Batch #: 804118

Sample: 561782-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/24/10 00:03

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.1	100	90	70-135	
o-Terphenyl	37.8	50.0	76	70-135	

Lab Batch #: 804118

Sample: 561782-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/24/10 00:33

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.2	101	79	70-135	
o-Terphenyl	40.1	50.3	80	70-135	

Lab Batch #: 804118

Sample: 370244-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 01:35

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.8	99.9	77	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

Lab Batch #: 804118

Sample: 370244-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 02:08

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.5	100	75	70-135	
o-Terphenyl	37.3	50.0	75	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

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: EVGSAU 2913-006

Work Orders : 370244,

Project ID: 150028

Lab Batch #: 804118

Sample: 370244-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 02:40

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.4	100	70	70-135	
o-Terphenyl	35.1	50.1	70	70-135	

Lab Batch #: 804118

Sample: 370244-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 03:11

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.8	100	78	70-135	
o-Terphenyl	37.9	50.0	76	70-135	

Lab Batch #: 804118

Sample: 370244-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 03:42

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.1	99.9	70	70-135	
o-Terphenyl	35.2	50.0	70	70-135	

Lab Batch #: 804118

Sample: 370244-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 04:14

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.4	100	75	70-135	
o-Terphenyl	37.5	50.2	75	70-135	

Lab Batch #: 804118

Sample: 370244-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 04:45

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.4	100	83	70-135	
o-Terphenyl	41.0	50.1	82	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  
 All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: EVGSAU 2913-006

Work Orders : 370244,

Project ID: 150028

Lab Batch #: 804118

Sample: 370244-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 05:15

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.8	99.6	84	70-135	
o-Terphenyl	41.1	49.8	83	70-135	

Lab Batch #: 804118

Sample: 370244-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 05:45

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	100	87	70-135	
o-Terphenyl	42.6	50.0	85	70-135	

Lab Batch #: 804118

Sample: 370244-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 06:47

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.9	100	83	70-135	
o-Terphenyl	41.8	50.0	84	70-135	

Lab Batch #: 804118

Sample: 370244-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 07:19

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.1	100	85	70-135	
o-Terphenyl	43.0	50.2	86	70-135	

Lab Batch #: 804118

Sample: 370244-009 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 07:48

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.3	100	90	70-135	
o-Terphenyl	38.6	50.1	77	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

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: EVGSAU 2913-006

Work Orders : 370244,

Project ID: 150028

Lab Batch #: 804118

Sample: 370244-009 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/24/10 08:20

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.1	99.5	88	70-135	
o-Terphenyl	37.1	49.8	74	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] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



# Blank Spike Recovery



**Project Name: EVGSAU 2913-006**

**Work Order #: 370244**

**Project ID:**

**150028**

**Lab Batch #: 804115**

**Sample: 804115-1-BKS**

**Matrix: Solid**

**Date Analyzed: 04/26/2010**

**Date Prepared: 04/26/2010**

**Analyst: LATCOR**

**Reporting Units: mg/kg**

**Batch #: 1**

**BLANK /BLANK SPIKE RECOVERY STUDY**

<b>Anions by E300</b>	<b>Blank Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Control Limits %R</b>	<b>Flags</b>
<b>Analytes</b>						
Chloride	ND	100	96.0	96	75-125	

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 2913-006

Work Order #: 370244

Analyst: BEV

Date Prepared: 04/23/2010

Project ID: 150028

Date Analyzed: 04/23/2010

Lab Batch ID: 804118

Sample: 561782-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

## BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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
<b>Analytes</b>											
C6-C12 Gasoline Range Hydrocarbons	ND	997	957	96	1000	960	96	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	997	735	74	1000	712	71	3	70-135	35	

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



# Form 3 - MS Recoveries



Project Name: EVGSAU 2913-006

Work Order #: 370244

Lab Batch #: 804115

Date Analyzed: 04/26/2010

QC- Sample ID: 370244-008 S

Date Prepared: 04/26/2010

Project ID: 150028

Analyst: LATCOR

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

## MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
	Chloride	53.3	107	174	113	75-125

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B

Relative Percent Difference [E] = 200\*(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 2913-006

Work Order #: 370244

Project ID: 150028

Lab Batch ID: 804118

QC- Sample ID: 370244-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 04/24/2010

Date Prepared: 04/23/2010

Analyst: BEV

Reporting Units: mg/kg

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY 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	ND	1070	1020	95	1070	950	89	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	50.8	1070	899	79	1070	796	70	12	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 Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit



# Sample Duplicate Recovery



**Project Name: EVGSAU 2913-006**

**Work Order #: 370244**

**Lab Batch #: 804115**

**Project ID: 150028**

**Date Analyzed: 04/26/2010**

**Date Prepared: 04/26/2010**

**Analyst: LATCOR**

**QC- Sample ID: 370244-008 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: mg/kg**

### SAMPLE / SAMPLE DUPLICATE RECOVERY

<b>Anions by E300</b>	<b>Parent Sample Result [A]</b>	<b>Sample Duplicate Result [B]</b>	<b>RPD</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analyte</b>					
Chloride	53.3	56.1	5	20	

**Lab Batch #: 804002**

**Date Analyzed: 04/23/2010**

**Date Prepared: 04/23/2010**

**Analyst: JLG**

**QC- Sample ID: 370221-001 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: %**

### SAMPLE / SAMPLE DUPLICATE RECOVERY

<b>Percent Moisture</b>	<b>Parent Sample Result [A]</b>	<b>Sample Duplicate Result [B]</b>	<b>RPD</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analyte</b>					
Percent Moisture	8.36	8.48	1	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





**Environmental Lab of Texas**  
**Variance/ Corrective Action Report- Sample Log-In**

Client: Env. Plus Inc.  
 Date/ Time: 4.23.10 10:52  
 Lab ID #: 370244  
 Initials: AL

**Sample Receipt Checklist**

				Client Initials
#1	Temperature of container/ cooler?	<input checked="" type="radio"/> Yes	No	4.6 °C
#2	Shipping container in good condition?	<input checked="" type="radio"/> Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<del>Not Present</del>
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<del>Not Present</del>
#5	Chain of Custody present?	<input checked="" type="radio"/> Yes	No	
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="radio"/> Yes	No	
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="radio"/> Yes	No	
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="radio"/> Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<input checked="" type="radio"/> Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="radio"/> Yes	No	
#11	Containers supplied by ELOT?	<input checked="" type="radio"/> Yes	No	
#12	Samples in proper container/ bottle?	<input checked="" type="radio"/> Yes	No	See Below
#13	Samples properly preserved?	<input checked="" type="radio"/> Yes	No	See Below
#14	Sample bottles intact?	<input checked="" type="radio"/> Yes	No	
#15	Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No	
#16	Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No	
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/> Yes	No	See Below
#18	All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	<del>Not Applicable</del>
#20	VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	No	Not Applicable

**Variance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- See attached e-mail/ fax
  - Client understands and would like to proceed with analysis
  - Cooling process had begun shortly after sampling event

## Gates, John W

---

**From:** Brito, Leonardo  
**Sent:** Monday, May 17, 2010 5:54 AM  
**To:** Gates, John W  
**Subject:** FW: ENV-B12-EVGSAU 2913-6, REMEDIATE

As per Jeff's note...  
Have a great work week,  
Leo.

---

**From:** Mosley, Jeffrey W (Producers Assistance Corp.)  
**Sent:** Sunday, May 16, 2010 11:09 PM  
**To:** Brito, Leonardo  
**Subject:** RE: ENV-B12-EVGSAU 2913-6, REMEDIATE

This needs to be sent to John Gates

Regards,

Jeff Mosley  
Project Lead / SENM  
PAC / ConocoPhillips  
HC 60, Box 66  
Lovington NM 88260  
Fax: 575-391-3140  
Cell: 575-441-4644

---

**From:** Brito, Leonardo  
**Sent:** Wednesday, April 07, 2010 9:30 AM  
**To:** Willis, Terrell (Producers Assistance Corp.)  
**Cc:** Saenz, Danny; Brito, Leonardo; Flores Jr, Merced  
**Subject:** ENV-B12-EVGSAU 2913-6, REMEDIATE

Terrell,

This is **HIGH PRIORITY WORK** - ESTIMATED COSTS **\$ 6,500.00**

The Notification was Initiated by **MERCED FLORES**

**Below is all the information that was on the Maintenance Order Description Box:**

ENV-B12-EVGSAU 2913-6, REMEDIATE

\*\*\*J.GATES CALLED IN NEEDING AN EXTRA \$5000.00.\*\*\*

\*\*\*\* TEXT FROM NOTIFICATION \*\*\*\*\*

\* 03/15/2010 11:37:37 Sara Marquez (MARQUS) Phone 1-575-391-3123

\*

\* REMEDIATE LOCATION, DUE TO FLOWLINE LEAK.

\*\*\*\* END OF NOTIFICATION TEXT \*\*\*\*\*

**Charge Code: # 6949257**

**P.O. # SJJEWEL**

**Please email me and let me know WHEN THE WORK IS COMPLETED...**

**Many Thanks**  
**LEO**

Leonardo Brito

L48 PERMIAN PPM PLANNER/SCHEDULER

✉ Address: ConocoPhillips Inc.  
4001 Penbrook - Odessa, TX 79762

☎ Office: (432) 368-1451

Cell: (432) 212-4341

Fax: (432) 368-1473

# ConocoPhillips



## Permian Basin Asset

Record of Accidental Discharge of Crude Oil, Water or Hazardous Substances

Lease: <b>EVGSAU</b> Well # <b>2913-006</b>		Lease # <b>300252638500</b> (API, RRC, State, or Federal)		Field: <b>EVGSAU</b>	
Discovered By: <b>Bradley Boroughs/Merced Flores</b>			Date and Time Discovered: <b>3-14-10 @ 12:30 p.m.</b>		
Date and Time Discharge Began: <b>3-14-10 @ 12:00 p.m.</b>			Date and Time Discharge Ended: <b>3-14-10 @ 12:45 p.m.</b>		
Discharge Site: Unit Letter <b>N/A</b> Sec. <b>29</b> Blk/TWP <b>17S</b> Survey/Range <b>35E</b> County/State <b>Lea/New Mexico</b>					
Latitude <b>N/A</b> Longitude <b>N/A</b>					
Highway Map Location: <b>From ConocoPhillips main office on CR 50, 2 miles west and 1/4 mile North to location</b>					
Location Of Discharge: <b>Flowline 35'x20'x.5"</b>				<input checked="" type="checkbox"/> Flowline ----- <b>30</b> Feet to Nearest Wellhead Number <b>2913-006</b> <input type="checkbox"/> Injection Line Feet to Nearest Wellhead Number	
Specific Source of Discharge: <b>Flowline</b>					
Describe Cause of Discharge: <b>Hole in flowline</b>					
Actions taken to Prevent Reoccurrence: <b>Repaired flowline with new tubing</b>					
Describe Nature and Extent of Area Affected: <b>Spilled fluid around flowline leak and misted 200' x 50' around leak</b>					
Weather Conditions: <b>Fair</b>					
Clean-Up Action Taken: <b>Remove contaminated soil and replace with fresh caliche</b>					
Remediation Action Taken: <b>N/A</b>					
<b>Specific Source of Discharge</b>			<b>Possible Reasons For Failure</b>		
<input checked="" type="checkbox"/> Flowline	<input type="checkbox"/> Pump	<input checked="" type="checkbox"/> Corrosion	<input type="checkbox"/> Human Error		
<input type="checkbox"/> Tank Piping	<input type="checkbox"/> Vessel	<input checked="" type="checkbox"/> External	<input type="checkbox"/> Pressure		
<input type="checkbox"/> Vessel Piping	<input type="checkbox"/> Chemical Storage Container	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> Instrumentation		
<input type="checkbox"/> Line Check Valve	<input type="checkbox"/> Chemical Injection Equipment	<input type="checkbox"/> Fatigue	<input type="checkbox"/> Mechanical		
<input type="checkbox"/> Wellhead Connections	<input type="checkbox"/> Casing/Tubing Communication	<input type="checkbox"/> Age	<input type="checkbox"/> Weather		
<input type="checkbox"/> Tank	<input type="checkbox"/> Other:	Cost of Cleanup/Repair: <b>\$1,500</b>			
Pipe Size = <b>2 7/8</b> inches					
<input checked="" type="checkbox"/> Steel	<input type="checkbox"/> Buried	<input type="checkbox"/> Coated	<input type="checkbox"/> Plastic Lined		
<input type="checkbox"/> Fiberglass	<input checked="" type="checkbox"/> Surface	<input type="checkbox"/> Internal	<input type="checkbox"/> Fiberglass		
<input type="checkbox"/> Plastic	<input type="checkbox"/> Bare	<input type="checkbox"/> External	<input type="checkbox"/> Was Line Chemically Treated		
<input type="checkbox"/> Transite	<input type="checkbox"/> Cement Lined	<input type="checkbox"/> Other			
<b>Names and Volumes of Substances Spilled</b>			<b>Remedial Action Picked Up</b>		
<b>3</b> BBL Oil <b>7.3</b> BBL Produced Water		<b>3</b> BBL Oil <b>7</b> BBL Produced Water		Contained in Dike? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Gallons Chemical Spilled		Gallons Chemical		MFG/Chemical Name:	
Gas Volume Released (MCF)		<input type="checkbox"/> Gas Leak	<input type="checkbox"/> Blowdown	<input type="checkbox"/> Upset	
Other – Explain:					
<b>Federal, State, and Local Agencies Notified:</b>				Job Number	
<b>Agency</b>	<b>Person Notified</b>	<b>Date and Time Notified</b>	<b>Method Used</b>		<b>Person Notifying</b>
		@	<input type="checkbox"/> Phone	<input type="checkbox"/> Fax	
		@	<input type="checkbox"/> Phone	<input type="checkbox"/> Fax	
		@	<input type="checkbox"/> Phone	<input type="checkbox"/> Fax	
Landowner/Tenant:				Telephone No.	
<b>I Hereby Certify That The Above Information Is True To The Best Of My Knowledge.</b>					
Name and Title: <b>Merced Flores, MSO</b>					
Date: <b>3/16/10</b>					

District I  
1625 N. French Dr., Hobbs, NM 88249  
District II  
1301 W. Grand Avenue, Artesia, NM 87003  
District III  
1000 Rio Brazos Road, Aztec, NM 87422  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

**RECEIVED**

MAR 18 2010

**HOBBSUCD**

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 <b>ConocoPhillips Company</b>	Contact <b>John W. Gates</b>
Address <b>3300 North A St. Bldg 6, Midland, TX 79705-5406</b>	Telephone No. <b>505.391.3158</b>
Facility Name <b>EVGSAU Well# 2913-006</b>	Facility Type <b>Oil and Gas</b>
Surface Owner <b>State Of New Mexico</b>	Mineral Owner <b>State Of New Mexico</b>
Lease No <b>300252638500</b>	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	<b>29</b>	<b>17S</b>	<b>35E</b>					

Latitude  $32^{\circ} 48.127$  Longitude  $103^{\circ} 28.544$

**NATURE OF RELEASE**

Type of Release <b>Crude Oil &amp; Produced Water</b>	Volume of Release <b>10.3bbl (3oil, 7.3water)</b>	Volume Recovered <b>(3oil, 7water)</b>
Source of Release <b>Hole in a 2 7/8" steel surface flow line</b>	Date and Hour of Occurrence <b>3/14/10 12:00 pm</b>	Date and Hour of Discovery <b>3/14/10 12:30 pm</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

**Release originated from a hole in a 2 7/8" steele surface flow line due to suspected internal/external corrosion. A vacuum truck picked up 3 bbls of crude oil and 7 bbls of produced water. The spill site will be remediated in accordance with an agreement with NMOCD.**

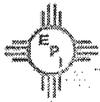
Describe Area Affected and Cleanup Action Taken.\*

**Affected area is a 35' X 20' X .5" area od dry, hard, caliche road and pad. A vacuum truck picked up 3 bbls of crude oil and 7 bbls of produced water.**

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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>John W. Gates</b>	Approved by District Supervisor:	
Title: <b>HSER Lead</b>	Approval Date:	Expiration Date:
E-mail Address: <b>John.W.Gates@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>3/16/10</b> Phone: <b>505.391.3158</b>		

- Attach Additional Sheets If Necessary



**ENVIRONMENTAL PLUS, INC.**  
CONSULTING AND REMEDIAL CONSTRUCTION

06 April 2010

Mr. John Gates  
HSER Lead  
ConocoPhillips Company  
1410 N. W. County Road  
Hobbs, New Mexico 88240

RE: Proposed Delineation of Release Area via Advancement of Soil Borings  
Located near EVGSAU 2913-006  
UL-P (SE1/4 of the SE1/4), Section 29, T17S, R35E  
Lea County, New Mexico  
EPI Ref. #150028

Dear Mr. Gates:

Environmental Plus, Inc., (EPI) respectfully submits the following Cost Estimate for advancement of four (4) proposed soil borings to delineate the above referenced Release Area:

A.) Delineation Cost Estimate:

- |   |             |
|---|-------------|
| 1. Construction Cost Sub-Total<br>(i.e., advancement of soil borings, plugging soil borings, collection of soil samples, transportation of soil samples to XENCO Lab, etc.) | \$9,140.00  |
| 2. Material Fees<br>(i.e., disposal fee for impacted soil at Controlled Recovery, Inc., etc.)   | \$76.00     |
| 3. Analytical and Technical Support<br>(i.e., project management and reporting, fees for field and laboratory analyses of soil samples, etc.)                               | \$3,950.00  |
| <u>Estimated Total</u>  | \$13,166.00 |

Cost Estimate is based on the following assumptions:

- A.) Advancement of four (4) soil borings to a maximum depth of forty-five (45) feet below ground surface (bgs) (Ref. *Figure #4* for proposed locations). This is an arbitrary depth allowing a buffer zone between projected groundwater elevation of seventy-five (75) feet bgs. However, soil borings will be advanced to a depth whenever two (2) consecutive soil samples are below NMOCD Guidelines of BTEX – 50 mg/kg, TPH – 100 mg/Kg and Chlorides – 250 mg/Kg or total depth of forty-five



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(45) feet bgs is achieved whichever comes first. Soil borings will be plugged in accordance with State of New Mexico Engineers Standards

- B.) During advancement of soil borings, soil samples will be collected/field analyzed at 2- and 5-foot bgs intervals initially, then a 5-foot increments thereafter until one of the two criteria explained in Item A above is met. Soil samples will be analyzed in the field using a MiniRae® Photoionization Detector (PID) for TPH and LaMotte Chloride Test Kit (titration method) for chloride concentrations. BTEX concentrations, if required, will be analyzed in the laboratory. In congruence with field analyses, soil samples will be immediately placed in laboratory provided glass containers, labeled and inserted into a cooler containing ice with transportation to XENCO Lab in Odessa, Texas under Chain-of-Custody protocol.
- C.) Fees associated with laboratory analyses of soil samples (XENCO) and disposal of impacted soil bore tailings (Controlled Recovery, Inc.) will be reimbursed by ConocoPhillips to each entity.
- D.) Upon completion of project. EPI will furnish ConocoPhillips an abbreviated *Remediation Proposal* inclusive of all field/laboratory analytical data and recommendations for remediation of Release Area.

Should you have questions, concerns or need additional information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or via e-mail at [dduncanepi@gmail.com](mailto:dduncanepi@gmail.com).

Sincerely,

ENVIRONMENTAL PLUS, INC.,

David P. Duncan  
Civil Engineer

Cc: Cody Miller – Vice President, EPI  
Roger Boone – Operations Manager, EPI  
Junior Hernandez – Sales Consultant, EPI

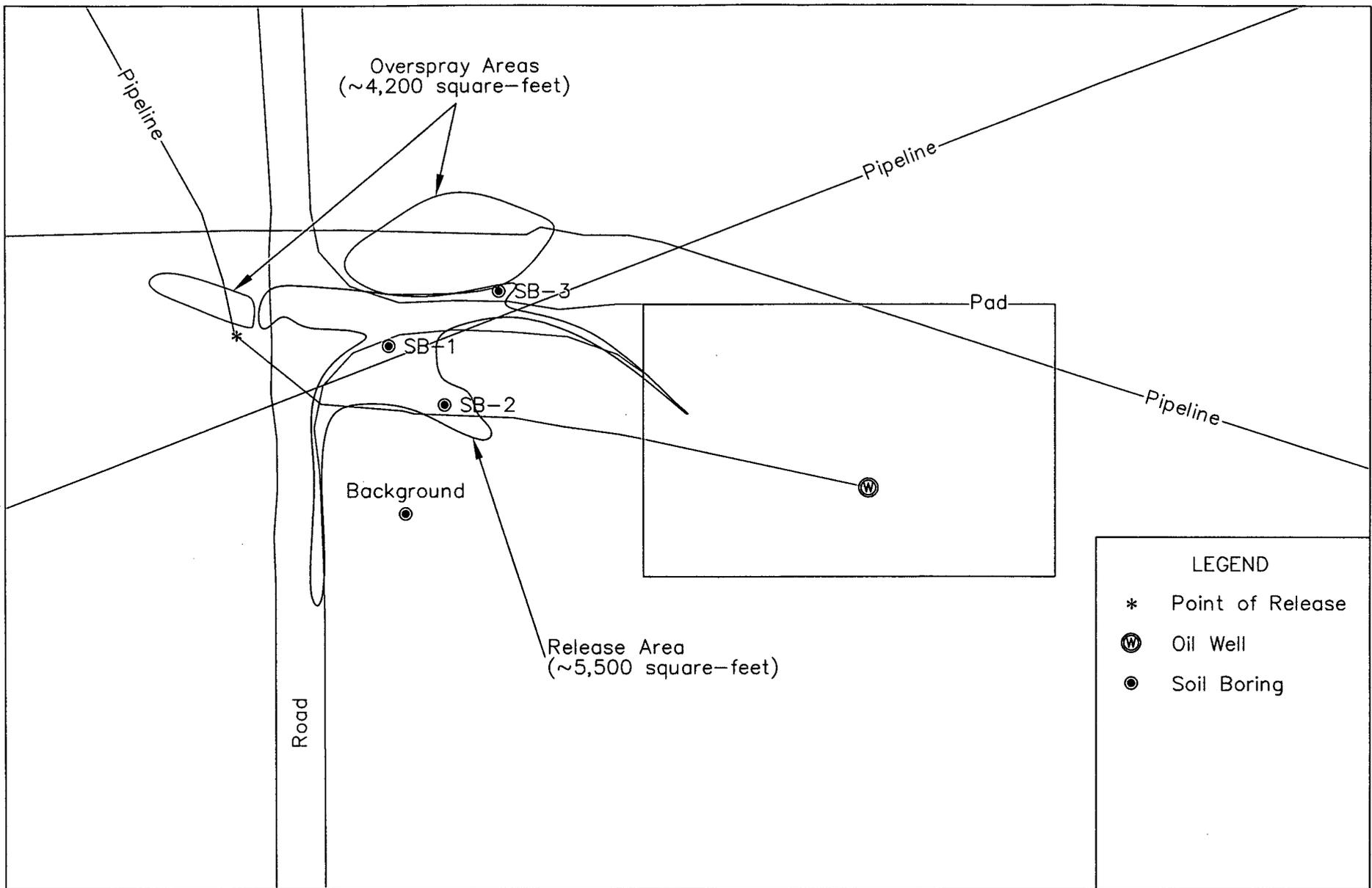


Figure 4  
 Proposed Soil Boring Map  
 ConocoPhillips  
 EVGSAU 2913-006

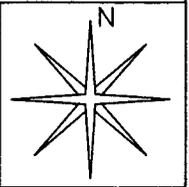
Lea County, New Mexico  
 SE 1/4 of the SE 1/4, Sec. 29, T17S, R35E  
 N 32° 48' 07.46" W 103° 28' 33.70"  
 Elevation: 3,964 feet amsl

DWG By: D Dominguez  
 March 2010

0 60 120  
 Feet

REVISED:

SHEET  
 1 of 1



**Gates, John W**

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**From:** Brito, Leonardo  
**Sent:** Monday, April 19, 2010 1:07 PM  
**To:** Gates, John W  
**Subject:** FW: Delineation process on EVGSAU Well #2913-006

FYI....

They are ready to go for Thursday, they have made the one call, etc. for this task.

---

**From:** Brito, Leonardo  
**Sent:** Monday, April 19, 2010 2:05 PM  
**To:** 'Junior Hernandez'  
**Subject:** RE: Delineation process on EVGSAU Well #2913-006

Junior for invoice purposes use:

**WELL NAME: EVGSAU 2913-006**  
**CHARGE CODE: 6949257**  
**P.O. SJJEWEL**

Regards,  
Leo.

---

**From:** Brito, Leonardo  
**Sent:** Monday, April 19, 2010 1:59 PM  
**To:** 'Junior Hernandez'  
**Cc:** Mosley, Jeffrey W (Producers Assistance Corp.)  
**Subject:** RE: Delineation process on EVGSAU Well #2913-006

Junior,  
Please Coordinate with Jeff Mosley, Project Lead, so you can be on location Thursday April 22nd. early morning. You need to **MAKE SURE** all your personnel working on this task have had ConocoPhillips Orientation and SLS training, otherwise they will be send back home.

Jeff Cell is : 575-441-4644

Best regards,

**Leonardo Brito**

**L48 PERMIAN PPM PLANNER/SCHEDULER**

✉ Address: ConocoPhillips Inc.

4001 Penbrook - Odessa, TX 79762

☎ Office: (432) 368-1451

Cell: (432) 212-4341

4/21/2010

Fax: (432) 368-1473

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**From:** Junior Hernandez [mailto:jhernandez.epi@gmail.com]  
**Sent:** Monday, April 19, 2010 12:26 PM  
**To:** Brito, Leonardo  
**Subject:** Delineation process on EVGSAU Well #2913-006

Mr. Brito:

This is JR Hernandez with Environmental Plus Inc. in Eunice, NM. I received an email from John Gates saying for me to move forward with the delineation process on the EVGSAU Well #2913-006 in Buckeye. Mr. Gates also informed me that I need to get with you as far as for planning and scheduling. I wanted to contact you and see about setting up a date for the delineation to begin. My cell phone number is 575-441-4974.

Thank you,  
JR Hernandez  
Environmental Plus Inc.

4/21/2010





**ENVIRONMENTAL PLUS, INC.**  
CONSULTING AND REMEDIAL CONSTRUCTION

06 April 2010

Mr. John Gates  
HSER Lead  
ConocoPhillips Company  
1410 N. W. County Road  
Hobbs, New Mexico 88240

**RECEIVED**

JUL 16 2010

**HOBBSOCD**

RE: Proposed Delineation of Release Area via Advancement of Soil Borings  
Located near EVGSAU 2913-006  
UL-P (SE1/4 of the SE1/4), Section 29, T17S, R35E  
Lea County, New Mexico  
EPI Ref. #150028

Dear Mr. Gates:

Environmental Plus, Inc., (EPI) respectfully submits the following Cost Estimate for advancement of four (4) proposed soil borings to delineate the above referenced Release Area:

A.) Delineation Cost Estimate:

- |   |             |
|---|-------------|
| 1. Construction Cost Sub-Total<br>(i.e., advancement of soil borings, plugging soil borings, collection of soil samples, transportation of soil samples to XENCO Lab, etc.) | \$9,140.00  |
| 2. Material Fees<br>(i.e., disposal fee for impacted soil at Controlled Recovery, Inc., etc.)   | \$76.00     |
| 3. Analytical and Technical Support<br>(i.e., project management and reporting, fees for field and laboratory analyses of soil samples, etc.)                               | \$3,950.00  |
| <u>Estimated Total</u>  | \$13,166.00 |

Cost Estimate is based on the following assumptions:

- A.) Advancement of four (4) soil borings to a maximum depth of forty-five (45) feet below ground surface (bgs) (Ref. *Figure #4* for proposed locations). This is an arbitrary depth allowing a buffer zone between projected groundwater elevation of seventy-five (75) feet bgs. However, soil borings will be advanced to a depth whenever two (2) consecutive soil samples are below NMOC Guidelines of BTEX – 50 mg/kg, TPH – 100 mg/Kg and Chlorides – 250 mg/Kg or total depth of forty-five

ENVIRONMENTAL PLUS, INC.



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(45) feet bgs is achieved whichever comes first. Soil borings will be plugged in accordance with State of New Mexico Engineers Standards

- B.) During advancement of soil borings, soil samples will be collected/field analyzed at 2- and 5-foot bgs intervals initially, then a 5-foot increments thereafter until one of the two criteria explained in Item A above is met. Soil samples will be analyzed in the field using a MiniRae® Photoionization Detector (PID) for TPH and LaMotte Chloride Test Kit (titration method) for chloride concentrations. BTEX concentrations, if required, will be analyzed in the laboratory. In congruence with field analyses, soil samples will be immediately placed in laboratory provided glass containers, labeled and inserted into a cooler containing ice with transportation to XENCO Lab in Odessa, Texas under Chain-of-Custody protocol.
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- D.) Upon completion of project. EPI will furnish ConocoPhillips an abbreviated *Remediation Proposal* inclusive of all field/laboratory analytical data and recommendations for remediation of Release Area.

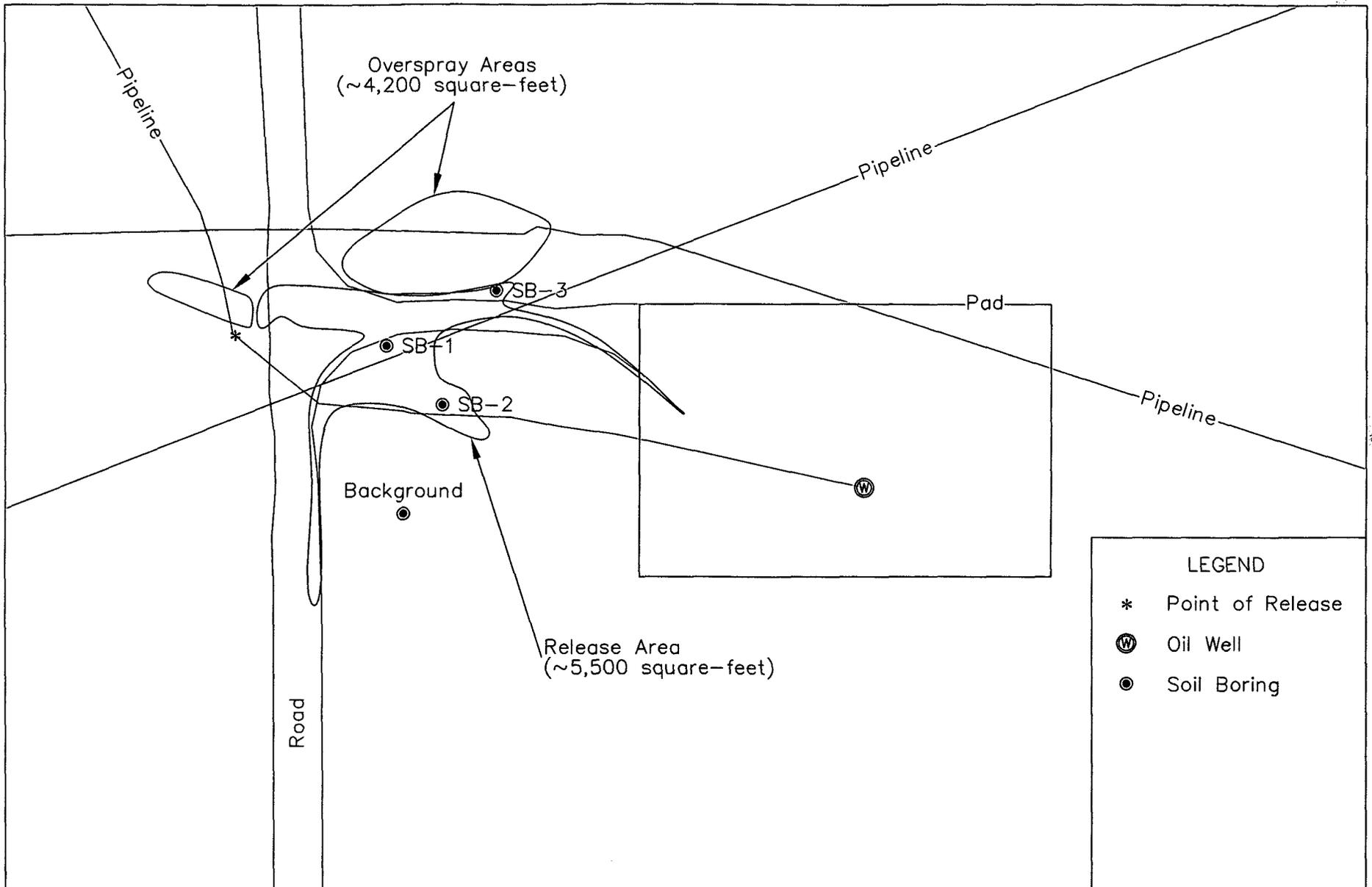
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Sincerely,

ENVIRONMENTAL PLUS, INC.,

David P. Duncan  
Civil Engineer

Cc: Cody Miller – Vice President, EPI  
Roger Boone – Operations Manager, EPI  
Junior Hernandez – Sales Consultant, EPI



**LEGEND**

- \* Point of Release
- (W) Oil Well
- (●) Soil Boring

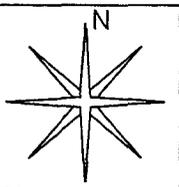
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Lea County, New Mexico  
SE 1/4 of the SE 1/4, Sec. 29, T17S, R35E  
N 32° 48' 07.46" W 103° 28' 33.70"  
Elevation: 3,964 feet amsl

DWG By: D Dominguez  
March 2010

0      60      120  
Feet

REVISED:  
  
SHEET  
1 of 1



**Gates, John W**

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**From:** David Duncan [dduncanepi@gmail.com]  
**Sent:** Tuesday, May 04, 2010 8:10 AM  
**To:** Mosley, Jeffrey W (Producers Assistance Corp.)  
**Cc:** Gates, John W  
**Subject:** ConocoPhillips - EVGSAU #2913-006 (EPI Ref. #150028)  
**Attachments:** Table 2 - Soil Boring Analytical Data.pdf

Mr. Mosley:

Attached for review and records is Table #2, Summary of Soil Boring Soil Sample Analytical Results, for the above referenced project. As noted most area impacts are surficial requiring excavation to clean up contaminated material plus one (1) foot of clean area as required by the NMOCD. Per your approval, EPI will prepare a Remediation Proposal for cleanup of the site and present to you for comments. After insertion of comments into the document, EPI will deliver a bound copy to the NMOCD for approval. During the interim, EPI will prepare a Cost Estimate for remediation of the release area.

Should you have concerns, questions or need additional information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or via e-mail at [dduncanepi@gmail.com](mailto:dduncanepi@gmail.com).

Sincerely,

ENVIRONMENTAL PLUS, INC.,

David P. Duncan  
Civil Engineer  
EPI Project Manager