

ENVIRONMENTAL PLUS, INC. Micro-Blaze Micro-Blaze Out

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES RP# 1342

2 June 2005

Mr. Larry Johnson **Environmental Engineer Specialist** New Mexico Oil Conservation Division 1625 North French Drive Hobbs, NM 88240

RE: ConocoPhillips SEMU Permian Well 73 Release Site (Ref. #150008) Latitude N 32° 33' 33.8" and Longitude W 103° 11' 20.7" API # 3002 5078 2 2000 0

Dear Mr. Johnson:

On November 24, 2004, a release of approximately 35 barrels of production fluid occurred as a result of a flow line leak at the above-referenced site. ConocoPhillips recovered approximately 28 barrels of production fluid and utilized a backhoe to back drag the release area to eliminate free-liquid residuals. ConocoPhillips retained Environmental Plus, Inc. (EPI) in January 2005 to delineate the vertical extent of impacted soil at the site. This letter report documents the results of the delineation activities and recommends how to proceed with the remediation of the impacted soil.

Site Background

The site is located in the NW¼ of the NE¼ of Section 19, Township 20 South, Range 38 East at an elevation of approximately 3,543 feet above mean sea level (reference Figures 1 and 2). The property is owned by Bob McCasland. A search for area 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). A total of 18 wells were found to be located either in Section 19 or one of the eight adjacent sections (i.e., sections 17, 18, 20, 29 and 23 of Township 20 South, Range 38 East and sections 13, 24 and 25 of Township 20 South, Range 37 East). The average depth to water in these wells was reported to be approximately 72 feet below ground surface (bgs) and ranged from 50 feet bgs to 82.73 feet bgs. (reference Table 2). No water supply wells or bodies of surface water were found to be located within a 1,000-foot radius of the release location, although one well (USGS #1) is located near the 1,000-foot boundary (reference Figure 2). Based on available information it was determined that the distance between the contamination and groundwater was between 50 and 100 feet. Utilizing this information, it was determined that the New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this site were as follows:

Parameter	Remedial Goal
Benzene	10 parts per million
BTEX	50 parts per million
TPH	1,000 parts per million

incident - nPAC0714434227 opplication-PPAC0714434336

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Field Work

EPI was on site from February 3, 2005 to advance two soil borings within the perimeter of the release area to delineate the vertical extent of production fluid-impacted soil (reference *Figure 4*). During the advancement of the soil boring, samples were collected at 5-foot intervals with a portion of the sample being placed in a laboratory provided container and the remainder placed in a self sealing polyethylene bag. The samples placed in laboratory provided containers were immediately placed on ice for transport to Environmental Lab of Texas of Odessa, Texas, for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX), gasoline range organics (GRO), diesel range organics (DRO) and chloride.

The portion of the samples placed in the self-sealing polyethylene bag were placed in a heated environment (i.e., cab of a truck) to allow the volatilization of organic vapors. After the samples had been allowed to equilibrate to $\approx 70^{\circ}$ F, they were analyzed for the presence of organic vapors utilizing a MiniRae® photoionozation detector (PID) equipped with a 9.8 electron-volt (eV) lamp. In addition, the samples were analyzed in the field for the presence of chloride using a LaMotte Chloride Test Kit.

The soil borings were advanced to depths of 10 and 15 feet below ground surface (bgs) and samples were collected at 2-feet, 5-feet, 10-feet, and 15-feet bgs. Field analyses of the samples collected during the advancement of soil boring BH-1 indicated the presence of organic vapors at concentrations ranging from 17.4 parts per million (ppm) at 15 feet bgs to 104 ppm at 2 feet bgs (reference *Table 1*). Field analyses for chloride indicated concentrations ranging from 240 milligrams per kilogram (mg/Kg) at 2 and 15 feet bgs to 1,840 mg/Kg at 5 feet bgs. Field analyses of samples collected during the advancement of soil boring BH-2 indicated the presence of organic vapors at concentrations ranging from 7.2 ppm at 10 feet bgs to 28.4 ppm at 2 feet bgs. Field analyses for chlorides indicated concentrations ranging from 240 mg/Kg at 2 and 10 feet bgs to 480 mg/Kg at 5 feet bgs.

During the advancement of the soil boring, the lithology was defined as sand to a depth of at least 15 feet bgs (reference *Attachment II*).

Analytical Data

Analytical results for the samples collected during the advancement of soil boring BH-1 indicated soil impacted above the NMOCD remedial threshold extends to a depth of between 2 and 5-feet bgs (reference *Table* 1). Analytical results for the samples collected during the advancement of soil boring BH-2 indicated there was no soil impacted above the NMOCD remedial thresholds. The only contaminant reported above the NMOCD remedial threshold for this site was total petroleum hydrocarbons (TPH) in the sample obtained from soil boring BH-1 at a depth of 2-feet bgs. TPH concentrations were reported at 20,500 milligrams per kilogram (mg/Kg) in this sample. Benzene and BTEX concentrations were reported at concentrations below the NMOCD remedial guidelines for all samples.

Chloride concentrations for the samples obtained during the advancement of soil boring BH-1 were reported ranging from 20.5 milligrams per liter (mg/L) at 2-feet bgs to 1,810 mg/L at 5 feet bgs. The reported concentrations are below the New Mexico Water Quality Control Commission's (NMWQCC) chloride standards for groundwater of 250 mg/L for all samples; with the exception of the sample collected at 5-feet bgs (reference *Table 2*).

Chloride concentrations for the samples obtained during the advancement of soil boring BH-2 were reported ranging from 22.2 mg/L at 2-feet bgs to 325 mg/L at 5-feet bgs. The reported concentrations are below the NMWQCC chloride standards for groundwater of 250 mg/L for all samples, with the exception of the sample collected at 5-feet bgs (reference *Table 2*).

Conclusions

Based on field and analytical analyses, soil impacted above the NMOCD remedial thresholds extends to a depth of approximately 5-feet bgs in the vicinity of where soil boring BH-1 was advanced (reference *Figure 4*). The release area is approximately 1,370 square feet in size; however, the lateral extent of impacts above the NMOCD remedial thresholds is limited to the vicinity of where soil boring BH-1 was advanced. The volume of soil that is required to be treated is unknown; however, if the entire release area was excavated to a depth of 5-feet bgs, the volume of soil excavated would be approximately 250 cubic yards (*in situ*). Due to the fact that impacts above the NMOCD remedial thresholds are limited to the vicinity of where soil boring BH-1 was advanced, the volume of impacted soil is actually less than 250 cubic yards.

Chloride concentrations were reported below the NMWQCC standards for groundwater in all but two samples collected during the advancement of the soil borings. The samples exhibiting elevated chloride levels were collected at 5-feet bgs in each of the soil borings and concentrations ranged from 325 mg/Kg (BH-2) to 1,810 mg/Kg (BH-1). Due to the elevated chloride levels reported in the sample collected from soil boring BH-1 at 5-feet bgs and the depth to groundwater in the area, there is the possibility that groundwater could be impacted by chloride.

Recommendations

Based on field and analytical results, it is recommended that soil impacted above the remedial limits within the vicinity of soil boring BH-1 be excavated. The final lateral and vertical extents will be determined via field analyses of soil samples collected during excavation activities. Upon completion of excavation activities, the excavation basin will be sampled (i.e., grab samples collected from the sidewalls and floor) and the samples submitted to an independent laboratory for quantification of BTEX and TPH.

The excavated soil impacted above the NMOCD remedial thresholds can be treated either by (a) transporting it to a State approved land treatment facility and backfilling the excavation with clean soil obtained off-site or (b) blending the soil with clean soil obtained from along the right-of-way until NMOCD remedial goals are achieved. Samples would be collected from the blended soil and analyzed in the field to ascertain when NMOCD guidelines had been achieved and samples submitted to an independent laboratory to verify field analyzes. Upon receipt of analytical results verifying the blending of the soil to NMOCD remedial guidelines or below, the excavation should be backfilled, contoured to allow natural drainage and reseeded.

Mr. Larry Johnson 2 June 2005

Should you have any questions or concerns, please feel free to contact me at (505) 394-3481 or via e-mail at iolness@hotmail.com. Upon your approval, EPI will initiate the next phase of the remediation. All official correspondence should be submitted to John Abney at:

> John Abney, SHEaR Specialist ConocoPhillips 1410 Northwest County Road Hobbs, NM 88240

(505) 391-3128 John.H.Abney@conocophillips.com

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain A. Olness, P.G.

Hydrogeologist

cc: John Abney, ConocoPhillips – Hobbs

> C. John Coy, ConocoPhillips – Hobbs Bob McCasland, Property Owner

File

encl. Figure 1 – Area Map

Figure 2 – Site Location Map

Figure 3 – Site Map

Figure 4 – Soil Boring Location Map

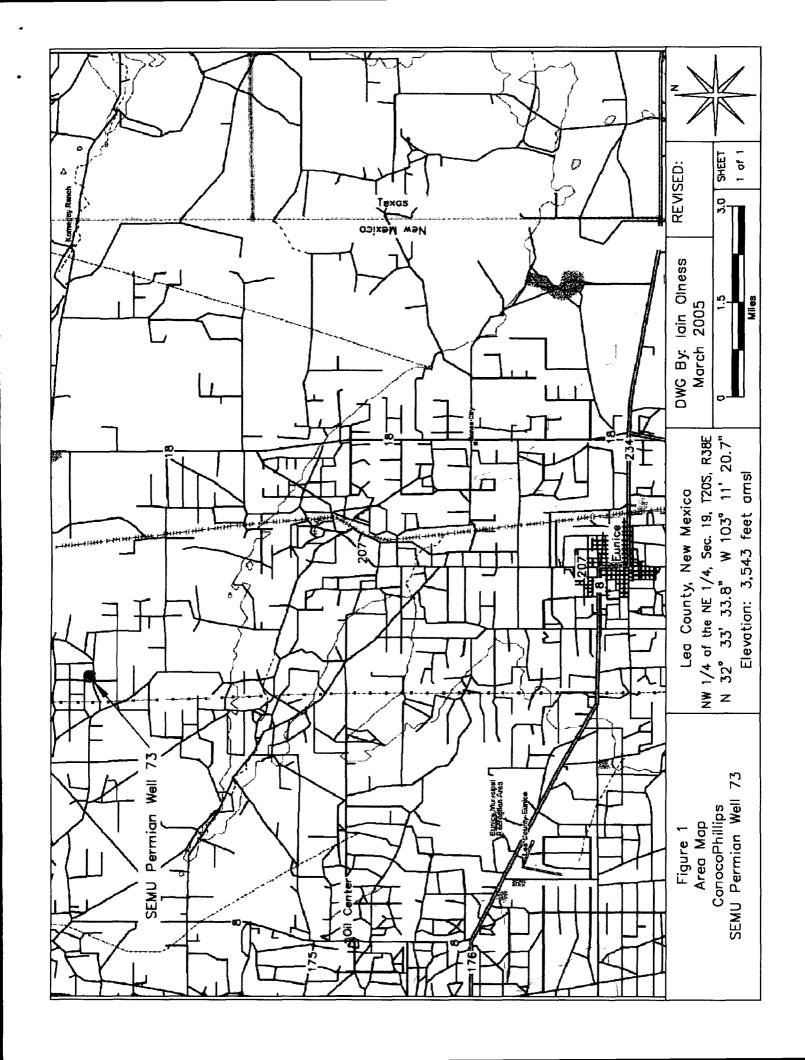
Table 1 – Summary of Soil Boring Analytical Results

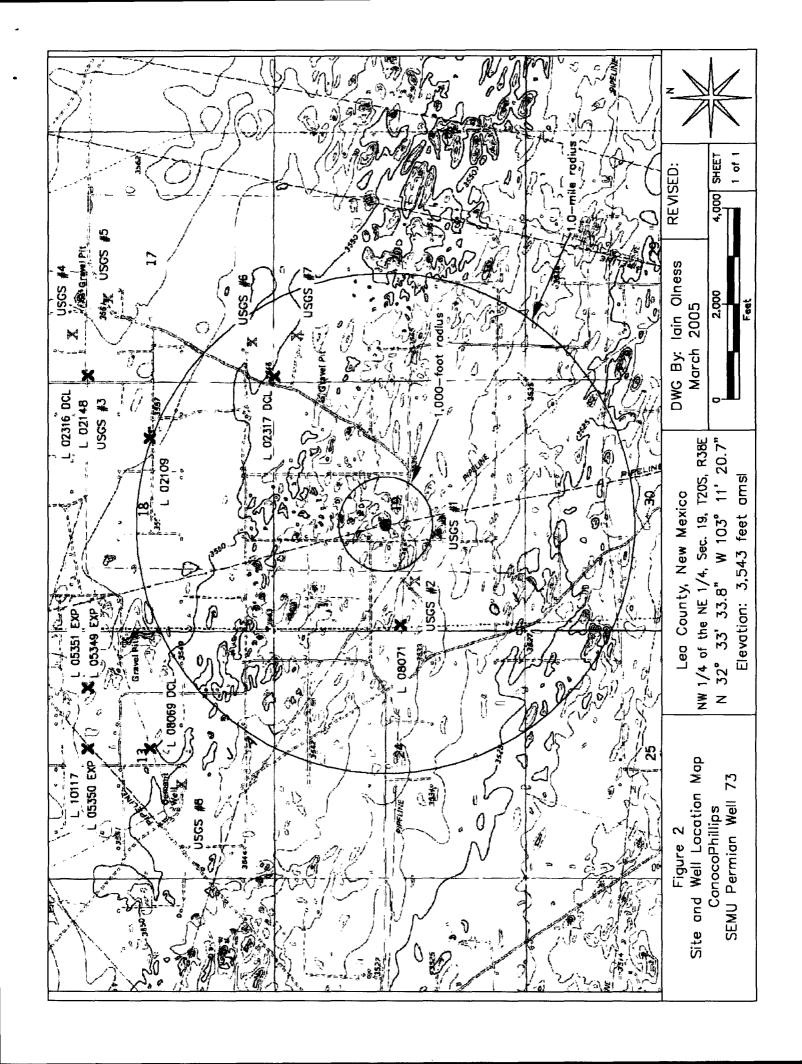
Table 2 – Well Data

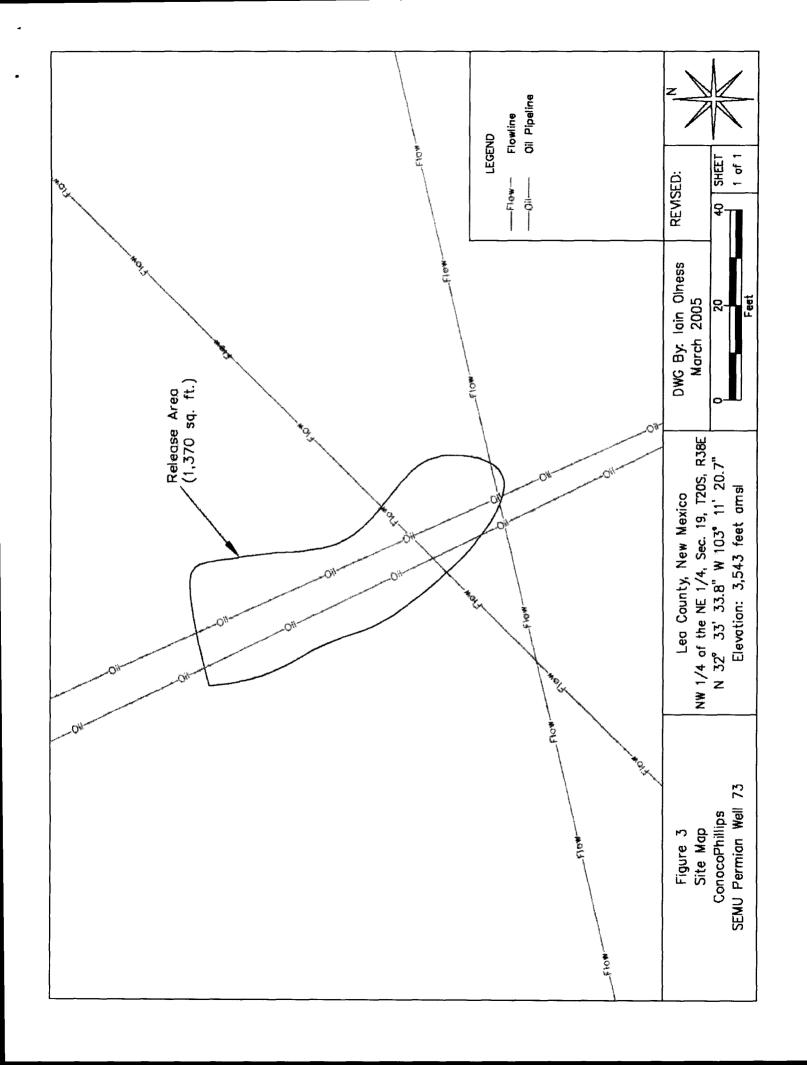
Attachment I - Laboratory Results and Chain-of-Custody Form

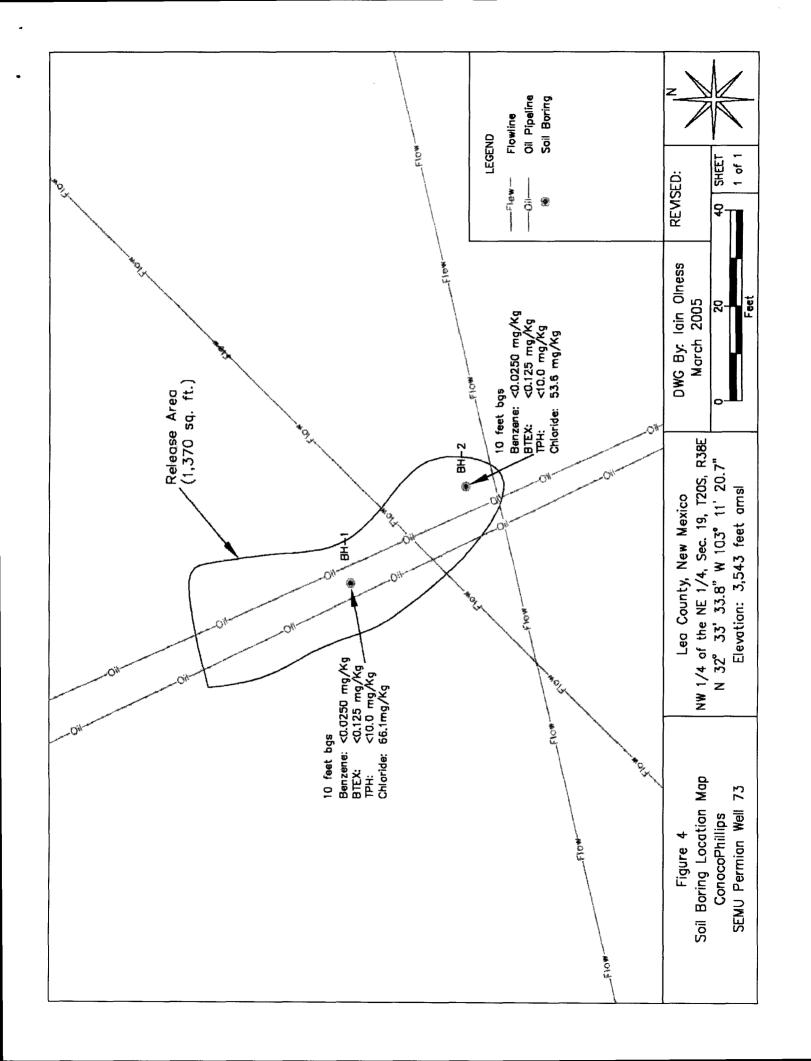
Attachment II - Soil Boring Logs Attachment III - Copy of Initial C-141

FIGURES









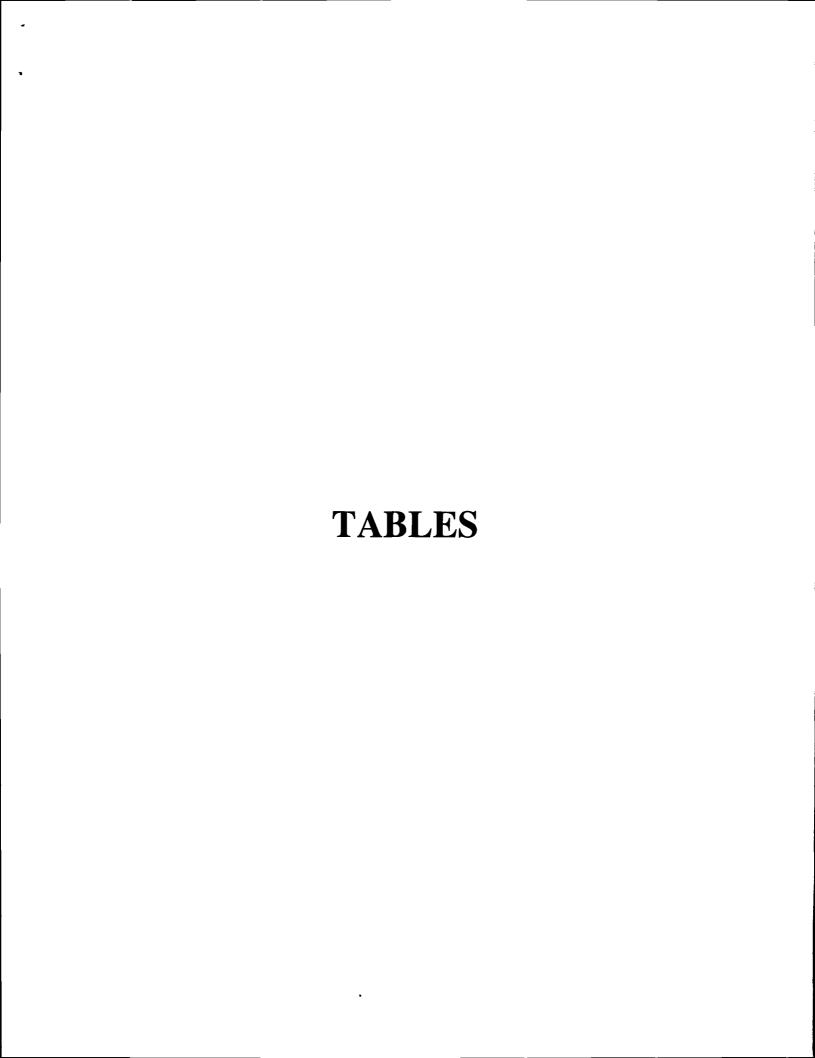


TABLE 1

Summary of Soil Boring Analytical Results

Conoco Phillips SEMU Permian Well 73 (Ref. #150008)

	•		PID Readine	PID Reading Field Chloride	Renzene	Tolisene	Kthylbenzene	m n-Yvdenes	o.Vvlene	Total BTFY	ТРН	ТРН	Total TPH	Chlorido
Soil Boring	(feet)	Sample Date	0					caratar dim	anada.	TOWN TO THE	(as gasoline)	(as diesel)		
			(bixth)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Background	Surface	03-Feb-05	NA	240	NA	NA	ΨN	NA	NA	NA	NA	NA	NA	NA
	2	03-Feb-05	104	240	0.0503	1.35	3.14	6.91	2.78	14.2	2,900	17,600	20,500	20.5
ם ו	5	03-Feb-05	74.4	1,840	<0.0250	0.0914	0.355	0.855	0.379	1.68	210	518	728	1,810
1-ma	10	03-Feb-05	21.1	320	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	8.484	<10.0	66.1
	15	03-Feb-05	17.4	240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2	03-Feb-05	28.4	240	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	7.364	154	154	22.2
BH-2	5	03-Feb-05	10.3	480	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0	325
	10	03-Feb-05	7.2	240	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0	53.6
NMOC	D Remedial	NMOCD Remedial Thresholds	1003		10					50			1,000	2505

¹ Bolded values are in excess of the NMOCD Remediation Thresholds

² NA = Not Analyzed
³ In iteu of laboratory analyses of benzene, toluene, ethylbenzene and total xylenes.
⁴ Detected, but below the reporting limit; therefore the result is an estimated concentration (CLP J-Flag)
⁵ Chloride restiduals may not be capable of impacting local groundwaterabove the NMWQCCstandard of 250 mg/L

TABLE 2

Well Data

Conoco Phillips SEMU Permian Well 73 (Ref. #150008)

Well Number	Diversion ^A	Owner	Use	Source	Twsp	Rng	b b b səs	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (n bgs)

^{* =} Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1) Shaded well information indicates well location shown on Figure 2

DOM = Domestic

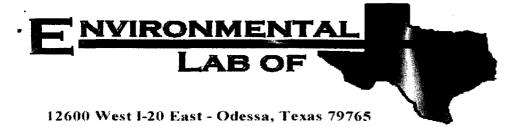
STK = Livestock Watering

EXP = Expired

IRR = Irrigation $P = The \ site \ was \ being \ pumped$ quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

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

 $^{^{\}mathrm{B}} = \mathrm{Elevation}$ interpolated from USGS topographical map based on referenced location.



Analytical Report

Prepared for:

Iain Olness
Environmental Plus, Incorporated
P.O. Box 1558
Eunice, NM 88231

Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008 Location: None Given

Lab Order Number: 5B09012

Report Date: 02/18/05

ATTACHMENT I LABORATORY RESULTS AND

CHAIN-OF-CUSTODY FORM

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008

Project Manager: Iain Olness

Fax: 505-394-2601

Reported: 02/18/05 08:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (2')	5B09012-01	Soil	02/03/05 11:00	02/09/05 16:15
BH-1 (5')	5B09012-02	Soil	02/03/05 11:10	02/09/05 16:15
BH-1 (10')	5B09012-03	Soil	02/03/05 12:49	02/09/05 16:15
BH-2 (2')	5B09012-05	Soil	02/03/05 14:10	02/09/05 16:15
BH-2 (5')	5B09012-06	Soil	02/03/05 14:17	02/09/05 16:15
BH-2 (10')	5B09012-07	Soil	02/03/05 14:45	02/09/05 16:15

Project: Conoco Phillips/ SEMU Permian Well 73
Project Number: 150008

Fax: 505-394-2601

Reported: 02/18/05 08:29

P.O. Box 1558 Eunice NM, 88231

Project Number: 150008
Project Manager: Iain Olness

Organics by GC Environmental Lab of Texas

		Environi		ab of i	CAUS				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
BH-1 (2') (5B09012-01) Soil							,		
Benzene	0.0503	0.0250	mg/kg dry	25	EB51409	02/10/05	02/14/05	EPA 8021B	
Toluene	1.35	0.0250	H	н	"	11	11		
Ethylbenzene	3.14	0.0250	"	31	**		н	н	
Xylene (p/m)	6.91	0.0250	0	u	**	11	11	**	
Xylene (o)	2.78	0.0250	11	11		н	11	11	
Surrogate: a,a,a-Trifluorotoluene		131 %	80	120	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		80.6 %	80	120	"	"	"	"	
Gasoline Range Organics C6-C12	2900	50.0	mg/kg dry	5	EB51006	02/10/05	02/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	17600	50.0	11	**	11	11	"	u u	
Total Hydrocarbon C6-C35	20500	50.0	17	н	n	11	11	11	
Surrogate: 1-Chlorooctane		24.8 %	70-	130	"	"	"	"	S-0
Surrogate: 1-Chlorooctadecane		20.2 %	70	130	n	"	"	"	S-0
BH-1 (5') (5B09012-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB51409	02/10/05	02/10/05	EPA 8021B	
Toluene	0.0914	0.0250	**	н	н	"	н	11	
Ethylbenzene	0.355	0.0250	"	н	н	n .	**	И	
Xylene (p/m)	0.855	0.0250	**	н	"	H	n	u	
Xylene (o)	0.379	0.0250	н	ŧŧ	"	н	n	n	
Surrogate: a,a,a-Trifluorotoluene		110 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-	120	"	"	"	"	~
Gasoline Range Organics C6-C12	210	10.0	mg/kg dry	1	EB51006	02/10/05	02/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	518	10.0	"	11	11	н	11	n	
Total Hydrocarbon C6-C35	728	10.0	n	"	11	11	11		
Surrogate: 1-Chlorooctane		93.0 %	70-	130	"	"	"	н	
Surrogate: 1-Chlorooctadecane		84.0 %	70-	130	"	"	"	н	
BH-1 (10') (5B09012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB51409	02/10/05	02/10/05	EPA 8021B	
Toluene	ND	0.0250	н		н	u	u	17	
Ethylbenzene	ND	0.0250	н	•	Ħ	91	10	11	
Xylene (p/m)	ND	0.0250	"	н	н	11	11	Ħ	
Xylene (o)	ND	0.0250	"	"			11	H	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	80	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB51006	02/10/05	02/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	J [8.48]	10.0	H	н	**	"	n	H	
Total Hydrocarbon C6-C35	ND	10.0	TI .	**	H	**	**	Ħ	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 11

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008
Project Manager: Iain Olness

Fax: 505-394-2601

Reported: 02/18/05 08:29

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (10') (5B09012-03) Soil			Omis	Diution	Datcii	гтератец	Allalyzed	Mediod	Notes
		92.2 %	70-1	120	EB51006	02/10/05	02/10/05	EPA 8015M	
Surrogate: 1-Chlorooctane		77.6%	70-1		EB31000 "	U2/1U/U3 "	<i>02/10/03</i> "	EPA 6013M	
Surrogate: 1-Chlorooctadecane		//.0 %	/0-1	130			"	,,	
BH-2 (2') (5B09012-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB51409	02/10/05	02/10/05	EPA 8021B	
Toluene	ND	0.0250	"	u	н	11	11	11	
Ethylbenzene	ND	0.0250	"	н	n	11	"	ч	
Xylene (p/m)	ND	0.0250	11	11	n	н	n	11	
Xylene (o)	ND	0.0250	u	11	11	**	11	п	
Surrogate: a,a,a-Trifluorotoluene		110 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	80-	120	"	"	"	"	
Gasoline Range Organics C6-C12	J [7.36]	10.0	mg/kg dry	1	EB51006	02/10/05	02/10/05	EPA 8015M	J
Diesel Range Organics >C12-C35	154	10.0	**	H	"	11	11	10	
Total Hydrocarbon C6-C35	154	10.0	11	н		Ħ	19	11	
Surrogate: 1-Chlorooctane		89.0 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		76.8 %	70-	130	"	"	"	"	
BH-2 (5') (5B09012-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB51409	02/10/05	02/10/05	EPA 8021B	
Toluene	ND	0.0250	11	**	11	11	H	н	
Ethylbenzene	ND	0.0250	11	u	0	*	"	11	-
Xylene (p/m)	ND	0.0250	11	**	0	•	**	н	
Xylene (o)	ND	0.0250	11	11	11	n	n	15	
Surrogate: a,a,a-Trifluorotoluene		89.9 %	80-	120	,,	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.9 %	80-	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB51006	02/10/05	02/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	**	11	11	"	11	
Total Hydrocarbon C6-C35	ND	10.0	н	Ħ	**	11		n .	
Surrogate: 1-Chlorooctane		91.0 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.0 %	70-	130	"	"	"	"	

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008
Project Manager: Iain Olness

Fax: 505-394-2601

Reported: 02/18/05 08:29

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (10') (5B09012-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB51409	02/10/05	02/10/05	EPA 8021B	
Toluene	ND	0.0250	•	11	**	н	u u	Ħ	
Ethylbenzene	ND	0.0250	**	H		н	11	н	
Xylene (p/m)	ND	0.0250	**	н	n	н	н	н	
Xylene (o)	ND	0.0250	**	н	H.	n	11	н	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		93.1 %	80-1	20	"	"	n	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB51006	02/10/05	02/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	"	11	**	11	11	
Total Hydrocarbon C6-C35	ND	10.0	"	11	11	n	n	**	
Surrogate: 1-Chlorooctane		92.8 %	70-1	30	n	"	"	"	
Surrogate: 1-Chlorooctadecane		73.6 %	70-1	30	"	"	"	"	

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008 Project Manager: Iain Olness Fax: 505-394-2601

Reported: 02/18/05 08:29

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (2') (5B09012-01) Soil							<u> </u>	, , , , , , , , , , , , , , , , ,	
Chloride	20.5	5.00	mg/kg	10	EB51717	02/14/05	02/14/05	EPA 300.0	
% Moisture	1.4	0.1	%	1	EB51102	02/10/05	02/11/05	% calculation	
BH-1 (5') (5B09012-02) Soil									
Chloride	1810	50.0	mg/kg	100	EB51717	02/14/05	02/14/05	EPA 300.0	
% Moisture	10.1	0.1	%	1	EB51102	02/10/05	02/11/05	% calculation	
BH-1 (10') (5B09012-03) Soil									
Chloride	66.1	5.00	mg/kg	10	EB51717	02/14/05	02/14/05	EPA 300.0	
% Moisture	6.1	0.1	%	1	EB51102	02/10/05	02/11/05	% calculation	
BH-2 (2') (5B09012-05) Soil									
Chloride	22.2	5.00	mg/kg	10	EB51717	02/14/05	02/14/05	EPA 300.0	,
% Moisture	2.8	0.1	%	1	EB51102	02/10/05	02/11/05	% calculation	•
BH-2 (5') (5B09012-06) Soil									
Chloride	325	10.0	mg/kg	20	EB51717	02/14/05	02/14/05	EPA 300.0	
% Moisture	4.6	0.1	%	1	EB51102	02/10/05	02/11/05	% calculation	
BH-2 (10') (5B09012-07) Soil									
Chloride	53.6	20.0	mg/kg	40	EB51717	02/14/05	02/14/05	EPA 300.0	
% Moisture	6.8	0.1	%	1	EB51102	02/10/05	02/11/05	% calculation	

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008

Project Manager: Iain Olness

Fax: 505-394-2601

Reported: 02/18/05 08:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB51006 - Solvent Extraction	(GC)		·							
Blank (EB51006-BLK1)				Prepared	& Analyze	d: 02/10/	05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	н							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.0	70-130			
Surrogate: 1-Chlorooctadecane	37.4		"	50.0		74.8	70-130			
Blank (EB51006-BLK2)				Prepared:	02/10/05	Analyzed	l: 02/11/05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0								
Total Hydrocarbon C6-C35	ND	10.0	11							
Surrogate: 1-Chlorooctane	47.6	<u> </u>	mg/kg	50.0		95.2	70-130			····
Surrogate: 1-Chlorooctadecane	35.2		"	50.0		70.4	70-130			
LCS (EB51006-BS1)				Prepared	& Analyze	ed: 02/10/	05			
Gasoline Range Organics C6-C12	429	10.0	mg/kg wet	500		85.8	75-125			
Diesel Range Organics >C12-C35	442	10.0	H	500		88.4	75-125			
Total Hydrocarbon C6-C35	871	10.0	u	1000		87.1	75-125			
Surrogate: 1-Chlorooctane	43.1		mg/kg	50.0		86.2	70-130			
Surrogate: 1-Chlorooctadecane	38.5		"	50.0		77. 0	70-130			
LCS (EB51006-BS2)				Prepared:	02/10/05	Analyzed	l: 02/11/05			
Gasoline Range Organics C6-C12	445	10.0	mg/kg wet	500		89.0	75-125	·		
Diesel Range Organics >C12-C35	459	10.0	"	500		91.8	75-125			
Total Hydrocarbon C6-C35	904	10.0	"	1000		90.4	75-125			
Surrogate: 1-Chlorooctane	39.3		mg/kg	50.0		78.6	70-130			·
Surrogate: 1-Chlorooctadecane	35.9		"	50.0		71.8	70-130			
Calibration Check (EB51006-CCV1)				Prepared	& Analyze	ed: 02/10/	05			
Gasoline Range Organics C6-C12	489		mg/kg	500		97.8	80-120			
Diesel Range Organics >C12-C35	494		н	500		98.8	80-120			
Total Hydrocarbon C6-C35	983		u	1000		98.3	80-120			
Surrogate: 1-Chlorooctane	49.3		"	50.0		98.6	70-130			
Surrogate: 1-Chlorooctadecane	38.3		"	50.0		76.6	70-130			

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008 Project Manager: Iain Olness Fax: 505-394-2601

Reported: 02/18/05 08:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB51006 - Solvent Extraction ((GC)									
Calibration Check (EB51006-CCV2)				Prepared:	02/10/05	Analyzed	1: 02/11/05			
Gasoline Range Organics C6-C12	490		mg/kg	500		98.0	80-120			
Diesel Range Organics >C12-C35	506		11	500		101	80-120			
Total Hydrocarbon C6-C35	996		11	1000		99.6	80-120			
Surrogate: 1-Chlorooctane	41.2		ir	50.0		82.4	70-130			
Surrogate: 1-Chlorooctadecane	37.7		n	50.0		75.4	70-130			
Matrix Spike (EB51006-MS1)	So	urce: 5B090	14-01	Prepared	& Analyz	ed: 02/10/0	05			
Gasoline Range Organics C6-C12	558	10.0	mg/kg dry	574	ND	97.2	75-125			
Diesel Range Organics >C12-C35	614	10.0	"	574	ND	107	75-125			
Total Hydrocarbon C6-C35	1170	10.0	u	1150	ND	102	75-125			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0	-	103	70-130	****		
Surrogate: 1-Chlorooctadecane	39.5		"	50.0		79.0	70-130			
Matrix Spike (EB51006-MS2)	So	urce: 5B090	15-04	Prepared:	02/10/05	Analyzed	1: 02/11/05			
Gasoline Range Organics C6-C12	491	10.0	mg/kg dry	531	ND	92.5	75-125			
Diesel Range Organics >C12-C35	560	10.0	"	531	ND	105	75-125			
Total Hydrocarbon C6-C35	1050	10.0	n	1060	ND	99.1	75-125			
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.2	70-130			
Surrogate: 1-Chlorooctadecane	39.7		"	50.0		79.4	70-130			
Matrix Spike Dup (EB51006-MSD1)	So	urce: 5B090	14-01	Prepared	& Analyz	ed: 02/10/0	05			
Gasoline Range Organics C6-C12	527	10.0	mg/kg dry	574	ND	91.8	75-125	5.71	20	
Diesel Range Organics >C12-C35	604	10.0	"	574	ND	105	75-125	1.64	20	
Total Hydrocarbon C6-C35	1130	10.0	11	1150	ND	98.3	75-125	3.48	20	
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		97.0	70-130			
Surrogate: 1-Chlorooctadecane	36.4		"	50.0		72.8	70-130			
Matrix Spike Dup (EB51006-MSD2)	So	urce: 5B090	15-04	Prepared:	02/10/05	Analyzed	1: 02/11/05			
Gasoline Range Organics C6-C12	516	10.0	mg/kg dry	531	ND	97.2	75-125	4.97	20	
Diesel Range Organics >C12-C35	546	10.0	11	531	ND	103	75-125	2.53	20	
Total Hydrocarbon C6-C35	1060	10.0	**	1060	ND	100	75-125	0.948	20	
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0		99.8	70-130		·····	
Surrogate: 1-Chlorooctadecane	38.0		"	50.0		76.0	70-130			

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008 Project Manager: Iain Olness Fax: 505-394-2601

Reported: 02/18/05 08:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB51409 - EPA 5030C (GC)					*					
Blank (EB51409-BLK1)				Prepared	& Analyze	ed: 02/10/	05			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	**							
Ethylbenzene	ND	0.0250	0							
Xylene (p/m)	ND	0.0250	11							
Xylene (o)	ND	0.0250	11							
Surrogate: a,a,a-Trifluorotoluene	94.0		ug/kg	100		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	108		"	100		108	80-120			
LCS (EB51409-BS1)				Prepared	& Analyze	ed: 02/10/	05			
Benzene	100		ug/kg	100		100	80-120			
Toluene	103			100		103	80-120			
Ethylbenzene	117		#	100		117	80-120			
Xylene (p/m)	238		n	200		119	80-120			
Xylene (o)	113		"	100		113	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	120		"	100		120	80-120			
Calibration Check (EB51409-CCV1)				Prepared:	02/10/05	Analyzed	l: 02/11/05			
Benzene	102		ug/kg	100		102	80-120			
Toluene	97.6		tt	100		97.6	80-120			
Ethylbenzene	99.1		**	100		99.1	80-120			
Xylene (p/m)	214		**	200		107	80-120			
Xylene (o)	106		**	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	103		"	100		103	80-120			
Matrix Spike (EB51409-MS1)	So	urce: 5B100	10-01	Prepared	& Analyzo	ed: 02/10/	05			
Benzene	100		ug/kg	100	ND	100	80-120			···
Γoluene	98.9		Ħ	100	ND	98.9	80-120			
Ethylbenzene	105		11	100	ND	105	80-120			
Xylene (p/m)	227		11	200	ND	114	80-120			
Xylene (o)	111		**	100	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	111		"	100		111	80-120			

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008

Project Manager: Iain Olness

Fax: 505-394-2601

Reported: 02/18/05 08:29

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB51409 - EPA 5030C (GC)		······································								
Matrix Spike Dup (EB51409-MSD1)	Sou	rce: 5B10010)-01	Prepared:	02/10/05	Analyzed	: 02/11/05		_	
Benzene	91.0		ug/kg	100	ND	91.0	80-120	9.42	20	
Toluene	87.3		**	100	ND	87.3	80-120	12.5	20	
Ethylbenzene	91.4			100	ND	91.4	80-120	13.8	20	
Xylene (p/m)	200		"	200	ND	100	80-120	13.1	20	
Xylene (o)	100		u	100	ND	100	80-120	10.4	20	
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			

Project: Conoco Phillips/ SEMU Permian Well 73

Fax: 505-394-2601

P.O. Box 1558 Eunice NM, 88231 Project Number: 150008
Project Manager: Iain Olness

Reported: 02/18/05 08:29

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB51102 - General Preparation	n (Prep)								<u>.</u>	
Blank (EB51102-BLK1)				Prepared:	02/10/05	Analyzed	: 02/11/05			
% Moisture	ND	0.1	%		-					
Duplicate (EB51102-DUP1)	So	urce: 5B0901	12-01	Prepared:	02/10/05	Analyzed	: 02/11/05			
% Moisture	1.5	0.1	%		1.4			6.90	20	
Batch EB51717 - Water Extraction			-							
Blank (EB51717-BLK1)				Prepared	& Analyze	ed: 02/14/	05			
Chloride	ND	0.500	mg/kg					• •	·	
LCS (EB51717-BS1)				Prepared	& Analyzo	ed: 02/14/	05			
Chloride	9.45		mg/L	10.0		94.5	80-120			,
LCS Dup (EB51717-BSD1)				Prepared	& Analyzo	ed: 02/14/	05			
Chloride	9.31	-	mg/L	10.0		93.1	80-120	1.49	20	
Calibration Check (EB51717-CCV1)				Prepared	& Analyzo	ed: 02/14/	05			
Chloride	9.74		mg/L	10.0		97.4	80-120			
Duplicate (EB51717-DUP1)	So	urce: 5B0901	12-02	Prepared	& Analyzo	ed: 02/14/	05			
Chloride	1790	50.0	mg/kg		1810			1.11	20	

P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ SEMU Permian Well 73

Project Number: 150008 Project Manager: Iain Olness Fax: 505-394-2601 Reported: 02/18/05 08:29

Notes and Definitions

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

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Duplicate Dup

Report Approved By:

KalanakJawa

Date:

2-18-05

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Labs of Texas

12600 West I-20 East, Odessa, TX 79763 (915) 563-1800 FAX: (915) 563-1713

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	and the second second							·	DNI.	TIME	11:00	11:10	12:49	13:12	14:10	14:17	14:45					lness@ho	Sample on-	flons in samp	
	And the second second second second					y,) 	Eunice, NM 88231-1558	SAMPLING	DATE	3-Feb	3-Feb	3-Feb	3-Feb	3-Feb	3-Feb	3-Feb					E-mail results to: iolness@hotmail.com	KEMARKS: Unly analyze Sample BH-1 (15) if analytical results for sample BH-1 (10) indicate LPH concentrations >100 page and/or banzane compatitations >10 page and/or BTEY concentrations > 50	concentrations > 100 ppm among betrache contentrations > 10 ppm among bilex concentrations > 50 ppm. If chloride concentrations in sample BH-1 (10') are >500 ppm, then analyze sample BH-1 (15') for chlorides. ** ANY QUESTIONS, PLEASE CONTACT IAIN**	
						Ö	155	823	<u></u>	ЯЗНТО	-		Н		H	\vdash				\vdash		ires	Traffor	chlori ss. **	
The second		#		-		Attn: Jain Olness	PO Box 1558.	8	PRESERV.	ICE/COOL	×	×	×	X	×	×	×			H		E E	EMA	om. #	
			T	1		<u></u>	O	e,	PRE	ACID/BASE			H		H							-	֓֓֓֓֓֓֓֓֓֓֓֓֟֓֓֓֓֓֓֟֓֓֓֓֓֟֓֓֓֓֓֓֓֓֓֟֓֓֓֟֓֓֓֟֓֓֓֟֓֓֟֓֓֟֓֓֓֟֓֓	<u>; द छ</u>	Т
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Environmental Plus Inc	Si	1558	Eunice New Mexico 88231	505-394-3481 / 505-394-260	sdilli	SEMU Permian Well 73		onzales		Ċ												Date 2 - 9	8:00	Date 7-9	Sample Cool & Intact
Environm	lain Olness	P.O. BOX 1558	Eunice Ne	505-394-3	Conoco Phillips	SEMU Per	150008	Manuel Gonzales		SAMPLE I.D.			(,	6)			(,						2	\bigcap	
	lager	8		*			93	me			1 BH-1 (2')	2 BH-1 (5')	3 BH-1 (10')	4 BH-1 (15')	5 BH-2 (2')	6 BH-2 (5')	7BH-2 (10')	8	6	С			TOTAL	H	
Company Name	EPI Project Manager	Mailing Address	City, State, Zip	EP! Phone#/Fax#	Client Company	Facility Name	Project Reference	EPI Sampler Name		LAB 1.D. 5B09012-	<u> </u>		- 08	~ 64 ·			, 07)	10		Sampler Relinquished:	\ I	Relinquished by:	Delivered by:

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

Client: Environmental Plus					
Date/Time: 2/9/05 16:45					
Order #: 5B09012					
Initials:					
Sample Receipt	Checkli	ist			
Temperature of container/cooler?	Yes	No	4.0	С	
Shipping container/cooler in good condition?	res	No	7.0		
Custody Seals intact on shipping container/cooler?	Yes	No	Not prese	ne	
Custody Seals intact on sample bottles?	Yes	No	Not prese		
Chain of custody present?	(Yes)	No	130(prese		
Sample Instructions complete on Chain of Custody?	(Fes)	No			
Chain of Custody signed when relinquished and received?) Yes	No	 	 	
Chain of custody agrees with sample label(s)	res	No			
Container labels legible and intact?	(Yes)	No	 		
Sample Matrix and properties same as on chain of custody?	P	No			
Samples in proper container/bottle?	(Yes)	No			
Samples properly preserved?	Yes	No	 		
	(Yes)		 		
Sample bottles intact?		No			
Preservations documented on Chain of Custody?	Yes	No			
Containers documented on Chain of Custody?	(Yes)	No	 		
Sufficient sample amount for indicated test? All samples received within sufficient hold time?	(AS)	No			
VOC samples have zero headspace?	(Yes)	No No	Not Applica	hla	
Other observations:					
Variance Docum	antatio	n:			
			Contacted	a	
Contact Person: Date/Time: Regarding:			Contacted	oy:	
			•	-	
Corrective Action Taken:	-				
					
					

ATTACHMENT II SOIL BORING LOGS

ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND
ENVIRONMENTAL SERVICES
EUNICE

Project Number: 150008

Project Name: Conoco Phillips SEMU Permian Well 73

Location: UL-B, Section 19, Township 20 South, Range 38 East

- 11	EUNICE 505-394-3481								
			505-		31		—,-	ring Number: BH-1 Surface Elevation: 3,543	
Sample # and Time	Ple Se	Recovery (inches)	Moisture	PID Readings (ppm)	C.S. bol	th eth	5	Start Date: 02/03/05 Time: 1055 hrs	
a d	Sample Type	eco inch	foist	PI Sead (pp	U.S.C.S. Symbol	Depth (feet)	' '	Completion Date: 02/03/05 Time: 1312 hrs	
							+	Description	
1100	Cuttings	NA 	Da	104	SP			SAND, Dil Stained	_
			l .			_			_
						_			
							5	SAND, Oil Stained	
1110	CS	10	Da	74.4	SP	_		Sing, an overless	_
									_
						_			_
							10	CAN D	
1249	cs	12	Da	21.1	SP	_		SAND	
									_
									_
							15		
1312	cs	8	Da	17.4	SP	_		SAND, Red	_
								End of Boring at 17.0'	
									_
							20		
						_			
						_			_
						_			_
							25		_
									_
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						_			_
							30		_
	Vate	r Leve	l Meas	urement	s (feet	;)			
Date	Time	Sa De	mple pth	Casing Depth	Cave-ii Depth	n V	ate:	ol .	
02/03/0	5 -		-	- -	_	+		Backfill Method: Bentonite	
	-				_	1	_	Field Representative: MG	

Log Of Test Borings

(NOTE - Page 1 of 1)



ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND
ENVIRONMENTAL SERVICES
EUNICE
505-394-3481

Project Number: 150008

Project Name: Conoco Phillips SEMU Permian Well 73

Location: UL-B, Section 19, Township 20 South, Range 38 East

94.	(A. 100)		505-	394-348	31		Bori	ing Number: SB-2	Surface Elevation: 3,548	
Sample #	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	S	tart Date: <u>02/03/05</u> Completion Date: <u>02/03/05</u> Desc	Time: 1405 hrs Time: 1610 hrs cription	
1410	Cuttings	NA	Da	28.4	SP			SAND, Brown		
										_
							5			_
1417	cs	9	Da	10.3	SP	-		SAND, White		
						Ē				_
							10			_
1445	cs	12	Da	7.2	SP	F		SAND, White		_
						-		End of Boring at 12.0'		_
							15			_
						_				_
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							20			_
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							25			
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Date	Vate Time	r Leve ≥ Sa	Meas mple pth	urement Casing Depth	Cave-i Depth	t) n V	ater	Drilling Method: HSA 3.5	' ID	
02/03/1	05 -	De	pth	Depth -	Depth -	\	.evel -	Backfill Method: Bent	tonite	

Field Representative:

MG

ATTACHMENT III COPY OF INITIAL C-141

Form C-14

side of for

Revised October 10, 20

District I 1625 N. French Dr., Hobbs, NM 88240 District II 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

Submit 2 Copies to appropria District Office in accordant with Rule 116 on bac

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

Release Notification and Corrective Action Initial Report **OPERATOR** Final Repo Name of Company ConocoPhillips Company Contact John Abney Telephone No. (505)391-3128 Address 4001 Penbrook Street Odessa, TX 79762 Facility Name SEMU Permian #73 Facility Type Oil Well Lease No. 031670B Mineral Owner BLM Surface Owner Bob McCasland #30005 07822000C LOCATION OF RELEASE East/West Line | County Unit Letter Section Township Range Feet from the North/South Line Feet from the 208 38E 660 North 1980 19 East Latitude 32 33.561 Longitude 103 11.324

В NATURE OF RELEASE Type of Release Oil and Produced water Volume of Release35 barrels Volume Recovered 28 barrels Source of ReleaseFlowline Date and Hour of Occurrence 11/24/04ata bath lour of Discovery 11/24/04 Was Immediate Notice Given? If YES, To Whom? X Yes No Not Required Sylvia Dickey (via voice mail) NMOCD By Whom? John Abney Date and Hour 11/24/04 4:10 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes XI No NA If a Watercourse was Impacted, Describe Fully.* NA Describe Cause of Problem and Remedial Action Taken.* Internal corrosion on flowline. Line was clamped for the weekend and then replaced 2 joints of pipe on Monday 11/29/04. Describe Area Affected and Cleanup Action Taken.* The area affected is 55' X 25' all free liquid was picked up. The site will have to be assessed to determine the appropriate remeditation necessary. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. **OIL CONSERVATION DIVISION** ENVIEW ENGR Approved by District Supervisor.

Signature: Printed Name; John Abney Title: SHEaR Specialist Approval Date: 5 23 87 Expiration Date: E-mail Address: john.h.abney@conocophillips.com Conditions of Approval: Attached 🔲 SUBUIT FINAY SIGHED Phone: (505)391-3128 Date: 11/30/2004

Attach Additional Sheets If Necessary

C-141 W/ CLUSURE ZERULTS ATTACHED

RP#1342