

Distribution List

Site Remedial Proposal

ConocoPhillips State "E" Water Transfer Line

NMOCD Ref. 1RP#1183; EPI Ref. #150010

Name	Title	Company or Agency	Mailing Address	e-mail
Larry Johnson	Environmental Engineer	New Mexico Oil Conservation Division- Hobbs	1625 N. French Drive Hobbs, New Mexico 88240	larry.johnson@state.nm.us
Jesse Sosa	HSER Lead	ConocoPhillips	ConocoPhillips 1410 N. West County Road Hobbs, New Mexico 88240	Jesse.A.Sosa@conocophillips.com
C. John Coy	Operations Supervisor	ConocoPhillips	ConocoPhillips 1410 N. West Country Road Hobbs, New Mexico 88240	c-john.coy@conocophillips.com
Millard Deck Estate	Property Owner		Millard Deck Estate c/o Harding and Carbone, Inc. 3903 Bellaire Blvd. Houston Tx. 77025	
File		Environmental Plus, Inc.	2100 Avenue 'O' P.O. Box 1558 Eunice, NM 88231	<u>dduncan@envplus.net</u>

STANDARD OF CARE

Closure Report ConocoPhillips - State "E" Water Transfer Line (NMOCD Ref. #1RP-1183; EPI Ref. #150010)

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993), the NMOCD *Unlined Surface Impoundment Closure Guidelines* (February, 1993) and Environmental Plus, Inc. (EPI) *Standard Operating Procedures and Quality Assurance/Quality Control Plan.* The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were derived using currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered professional with a background in engineering, environmental and/or natural sciences.

This report was prepared by:

Daniel Dominguez

Environmental Consultant

- 19-07

This report was reviewed by:

Man David P. Duncan

Civil Engineer

- 19-05

ii

Table of Contents

1.0	Project Synopsis	. iv
2.0	Site and Release Information	. 1
3.0	NMOCD Site Ranking	2
4.0	Excavation Soil Information	3
5.0	Sampling Information	4
6.0	Analytical Results	5
7.0	Discussion	6
8.0	Conclusion and Recommendations	7

FIGURES

Figure 1: Area Map Figure 2: Site Location Map Figure 3: Site Map Figure 4: Soil Boring Location Map Figure 5: Sample Map – 4/25/2006 Figure 6: Sample Map – 4/27 & 5/16 2007

TABLES

Table 1: Well Data

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

APPENDICES

Appendix I: Laboratory Analytical Reports and Chain-of-Custody Forms Appendix II: Project Photographs Appendix III: Soil Boring Logs Appendix IV: Copy of Initial and Final NMOCD Form C-141

1.0 PROJECT SYNOPSIS

Site Specific:

- *Company Name*: ConocoPhillips
- Facility Name: State "E" Water Transfer Line
- Project Reference: NMOCD Ref. #1RP-1183; EPI Ref #150010
- ♦ Company Contact(s): Jesse Sosa
- Site Location: WGS84 N32° 22' 31.75"; W103° 16' 44.61"
- Legal Description: Unit Letter-I, (NE¹/₄ of the SE¹/₄), Section 20, T 22 S, R 36 E
- General Description: Approximately 8.2-miles west-southwest of Eunice, New Mexico
- *Elevation:* ~3,536-ft amsl
- Land Ownership: Land- Millard Deck Estate; Minerals-State of New Mexico
- EPI Personnel: Project Consultant David P. Duncan

Release Specific:

- *Product Released:* Produced water
- Volume Released: ~88-bbls
- ♦ *Volume Recovered:* 0-bbls

◆ Time of Discovery: 4/07/05 @800 hrs

- *Time of Occurrence:* 4/07/05
- *Release Source*: Spill release from a produced water polypropylene pipeline
- ♦ Initial Surface Area Affected: ~ 1,600 square feet

Remediation Specific:

- *Final Vertical extent of contaminates:* ~ 65-feet bgs (based on analytical data from soil borings)
- Water wells within 1,000-ft: None
- Private domestic water sources within 200-ft: None
- Depth to Ground Water: ~250-ft bgs
- Surface water bodies within 1,000-ft: None
- *NMOCD Site Ranking Index:* Zero (0) points (>100-ft to top of water table and >1,000-ft from water source)
- Remedial goals for Soil: TPH 5,000 mg/Kg; BTEX 50 mg/Kg; Benzene 10 mg/Kg; Chloride residuals may not be capable of impacting groundwater above NMWQCC Ground Water Standards of 250 mg/Kg.
- **RCRA Waste Classification:** Exempt
- Remediation Option Proposed: a) Approximately 1,302 yds³ of soil impacted above NMOCD remedial threshold goals have been excavated and transported to Sundance Services, Inc. for disposal; b) laboratory analyses of soil samples collected from bottom and sidewalls of the excavation confirmed removal of most soil impacted above NMOCD remedial threshold goals; c) isolated residual chlorides in excavation bottom with 20-mil polyethylene liner; d) backfilled excavation with clean topsoil; e) contoured remedial area to allow natural drainage; and f) seeded remedial area with a blend preferred by the land owner
- Treatment/Disposal Facility: Sundance Services, Inc.
- ♦ Volume disposed: ~1,302 yrd³
- Project Completion Date: May 30, 2007

ConocoPhillips – State E Water Transfer Line 150010

2.0 SITE AND RELEASE INFORMATION

- 2.1 Describe the land use and pertinent geographic features within 1,000 feet of the site. Surface rights for the land surrounding the release site are owned by the Millard Deck Estate and mineral rights are owned by the State of New Mexico. The area is an established oil field with pump jacks, tank batteries, pipelines, lease roads and other petroleum related facilities. The surrounding land is also used for livestock grazing.
- 2.2 *Identify and describe the source or suspected source(s) of the release.* Produced water release from a three inch (3") diameter polypropylene pipeline
- 2.3 What was the volume of the release? (if known): ~88 barrels of produced water
- 2.4 What was the volume recovered? (if known): Zero (0) barrels
- 2.5 When did the release occur? (if known): 7-April-2005

2.6 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments (i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation). Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil."

The release site is located in the Eunice Plains physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a hard caliche surface and is entirely covered by reddish-brown dune sand." The thickness of sand cover ranges from 2 to 5 feet in most areas to as much as 20-30 feet in drift areas.

2.7 Ecological Description

The site is located in the Eunice Plains physiographic subdivision. Vegetation consists of semi-desert grasslands interspersed with Honey Mesquite (*Prosopis glandulosa*), annual and perennial forbs. Mammals represented include Orrd's and Merriam's Kangaroo Rats, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, amphibians, and birds are numerous and typical of area. A survey of *Listed*, *Threatened*, or *Endangered* species was not conducted.

2.8 Area Groundwater

The unconfined groundwater aquifer at this site is projected to be \sim 250-ft bgs based on water depth data obtained from the New Mexico State Engineers Office and United States Geological Survey data base (reference *Table 2*).

2.9 Area Water Wells

No public water supply wells are located within 1,000-feet of the release site. In addition, no private domestic fresh water wells or springs used by less than five households for domestic or stock watering purposes exist within 200-feet of the release site (reference *Table 1* and *Figure 2*).

2.10 Area Surface Water Features

No surface water features exist within 1,000 feet of the release site (reference Figure 2).

3.0 <u>NMOCD SITE RANKING</u>

Contaminant delineation and remedial work done at this site indicate chemical parameters of the soil and physical parameters of the groundwater were consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February, 1993)
- Pit and Below-Grade Tank Guidelines (November, 2004)

Acceptable thresholds for contaminants/constituents of concern (CoC) were determined based on the NMOCD Ranking Criteria as follows:

- Depth to Groundwater (i.e., distance from the lower most acceptable concentration to groundwater);
- Wellhead Protection Area (i.e., distance from fresh water supply wells);
- Distance to Surface Water Body (i.e., horizontal distance to all down gradient surface water bodies).

Based on the proximity of the site to protectable area water wells, surface water bodies and depth to groundwater from the lower most contamination, the NMOCD ranking score for the site is Zero (0) points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. GRO	UNDWATER	2. WELLHEAD	PROTECTION AREA	3. DISTANCE TO SURFACE WATER			
Depth to GW <	50 feet: 20 points	If <1,000' from wat	er source, or <200' from	<200 horizontal feet: 0 points			
Depth to GW 50 10 points	0 to 99 feet:	private domestic v	vater source: 20 points	200-1,000 horizontal feet: 10 points			
Depth to GW > [.]	100 feet: 0 points	If >1,000' from wat private domestic v	er source, or >200' from vater source: <i>0 points</i>	>1,000 horizontal feet: 0 points			
Site Rank (1+2-	+3) = 0 + 0 + 0 =	0 points					
	Total Site	Ranking Score and	Acceptable Remedial Goal	Concentrations			
Site Rank	20 c	or >	10	0			
Benzene ¹	10 p	ppm 10 ppm		10 ppm			
BTEX ¹	50 p	ppm 50 ppm		50 ppm			
трн	100 լ	ppm 1,000 ppm		5,000 ppm			

A field soil vapor headspace measurement of 100 ppm can be substituted in lieu of laboratory analyses for benzene and BTEX.

4.0 EXCAVATED SOIL INFORMATION

4.1 Was soil excavated for off-site treatment or disposal? Xes No Date excavated: 2/26/2007 - 5/22/2007

Total volume removed: ~1,302 yds³

4.2 Indicated soil treatment type:

 Disposal

 Land Treatment

 Composting/Biopiling

 Other ()

Name and location of treatment/disposal facility: Sundance Services, Inc.

5.0 SAMPLING INFORMATION

5.1 Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil.

Organic Vapor Concentrations – A portion of each soil sample collected was inserted into a self-sealing polyethylene bag to allow volatilization of organic vapors. After the samples equilibrated to $\sim 70^{\circ}$ F, they were analyzed for organic vapors utilizing a MiniRae® Photoionization Detector (PID) equipped with a 10.6 electron volt (eV) lamp and calibrated for detection of benzene vapors.

Chloride Concentrations – A LaMotte Chloride Test Kit (Titration Method) was utilized for field analyses of chloride concentrations.

5.2 Briefly describe the soil analytical sampling and handling procedures used.

Soil samples were collected during the advancement of two (2) soil borings utilizing a hollow core drill. Soil samples were collected at five foot (5-ft) intervals from original ground surface to total depth (TD) of each respective boring hole.

A portion of each soil sample collected was immediately put into laboratory containers, appropriately labeled and placed on ice for submittal to an independent laboratory for quantification of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and total xylenes (BTEX) and chloride concentrations. The remaining portion of each sample was analyzed in the field for chloride and organic vapor concentrations utilizing methods described in Section 5.0, *Sampling Information*, Subsection 5.1.

5.3 Discuss sample locations and provide rationale for their locations.

From April 19 through April 27, 2005, two (2) soil borings were advanced varying depths within the confines of the release area to delineate vertical extent of contamination. Soil boring hole BH-1 was advanced a total depth (TD) of sixty-five feet (65-ft). Soil boring hole BH-2, located approximately twenty-five feet (25-ft) south of BH-1, was advanced a total depth (TD) of thirty-five feet (35-ft). Soil samples were collected at ground surface and at five foot (5-ft) intervals thereafter to delineate the vertical extent of soil contamination. Locale for BH-1 was chosen to be within close proximity of the point of release which should contain elevated concentration of contaminants. Locale for BH-2 was chosen to indicate lateral as well as vertical extent of the impacted area (reference *Figure 4* and Appendix III, *Soil Boring Logs*).

On April 25, 2006 fourteen (14) soil samples were collected at varying depths from excavation bottom and sidewalls to delineate extent of contamination (reference *Figure 5*). Sidewall soil samples SW-1 through SW-10 were collected at 3-ft bgs. Bottom hole soil samples BH-1 through BH-4 were collected at 5-ft bgs. Locale for soil samples were chosen to indicate lateral as well as vertical extent of soil contamination (reference, *Table 3*).

On April 27 and May 16, 2007 a total of seven (7) soil samples were collected at varying depths from excavation bottom and sidewalls to delineate extent of contamination (reference *Figure 6*). SW-1B, SW-9B and SW-10B were collected at 3-ft bgs. BH-1B and BH-2B were collected at 6-ft bgs. BH-1C and BH-2C were collected at 8-ft bgs. Locale for soil samples was chosen to indicate lateral as well as vertical extent of soil contamination (reference, *Table 3*).

6.0 ANALYTICAL RESULTS

6.1 Describe the vertical and horizontal extent and magnitude of soil contamination.

Laboratory analyses of soil samples collected on the surface area prior to advancement of soil boring BH-1 indicated BTEX concentrations at 26.5 mg/Kg, TPH at 5,190 mg/Kg and chloride at 37,000 mg/Kg. Analysis of soil samples collected at five feet (5-ft) below ground surface (bgs) indicated BTEX and TPH concentrations were at or below laboratory analytical method detection limits (MDL). Laboratory analyses of BTEX and TPH concentrations were not conducted in the intervals of ten feet (10-ft) bgs to sixty-five feet (65-ft) bgs as field analyses of organic vapor concentrations were non-detectable. However, during these intervals chloride concentrations ranged from 294 mg/Kg (10-ft bgs) to 1,070 mg/Kg (65-ft bgs) (reference *Figure 4* and *Table 2*).

Laboratory analyses of soil samples collected on the surface prior to advancement of soil boring BH-2 indicated BTEX concentrations at 0.103 mg/Kg, TPH at 18,501 mg/Kg and chloride at 1,030 mg/Kg. Analyses of soil samples collected at five feet (5-ft) bgs indicated BTEX and TPH concentrations were at or below laboratory analytical MDL. Laboratory analyses for BTEX and TPH were not conducted in the intervals of ten feet (10-ft) bgs to thirty-five feet (35-ft) bgs as field analyses of organic vapor concentrations were non-detectable. Chloride concentrations during these intervals ranged from 431 mg/Kg (10-ft bgs) to 717 mg/Kg (15-ft bgs) (reference *Figure 4* and *Table 2*).

In reviewing analytical data in *Table 2*, the vertical extent of soil impacted with BTEX and TPH constituents exists from ground surface to approximately five feet (5-ft) bgs. Chloride concentrations extended from ground surface to sixty-five feet (65-ft) bgs. Horizontal extent of BTEX, TPH and chloride contamination is uniform in the interval between the two (2) soil borings. A background soil sample collected in the vicinity near the release area indicated chloride concentration at 320 mg/Kg. This indicates natural soil in vicinity of the release area may have elevated chloride concentrations.

Laboratory analyses of soil samples collected on April 25, 2007 indicated chloride concentrations ranged from ND at or above laboratory analytical MDL (SW-4) to 1,488 mg/Kg (BH-2) with the latter value exceeding remedial threshold goals of 250 mg/Kg (reference *Figure 5* and *Table 3*).

Laboratory analyses of soil samples collected on April 27 and May 16, 2007 indicated chloride concentrations ranged from 16 mg/Kg (SW-9B) to 1,296 mg/Kg (BH-2C) with the latter value exceeding remedial threshold goals of 250 mg/Kg (reference *Figure 6* and *Table 3*).

Is surface soil contamination present at the site (i.e., soil in the uppermost two feet that is visibly stained, contaminated at greater than 10 ppm (PID) or hydrocarbon saturated)?

🗌 yes 🛛 no

If yes, attach a site map identifying extent(s) of surface soil contamination.

Not Applicable

7.0 DISCUSSION

7.1 Discuss the risks associated with the remaining soil contamination:

There are no residual risks associated with BTEX or TPH. Verification soil samples collected at 5-ft bgs were below laboratory analytical MDL for these constituents.

Based on residual chloride concentrations, potential risks associated with chloride contamination of groundwater are considered minimal for the following reasons:

- The vertical distance between groundwater (~250-ft bgs) and the lowest point of chloride impacted soil (~65-ft bgs) is approximately 185 feet. With chloride impacts confined to a relatively small area, natural attenuation will deplete concentrations significantly during migration. Hence, chloride residuals in the soil should not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/L.
- 2. Vertical migration of in situ residual chlorides have been retarded with installation of a 20-mil polyethylene liner.
- 7.2 Discuss the risks associated with the impacted groundwater: Not Applicable
- 7.3 Discuss other concerns not mentioned above: Not Applicable

8.0 <u>CONCLUSIONS AND RECOMMENDATIONS</u>

8.1 Recommendation for the site:

Site Closure

Additional Groundwater Monitoring Corrective Action

8.2 Base the recommendation above on <u>Guidelines for Remediation of Leaks, Spills and</u> <u>Releases (August 13, 1993)</u>. Describe below how you applied the policy to support your recommendation. If closure is recommended, please summarize significant site investigative events and describe how site specific risk issues have been adequately addressed or minimized to acceptable low risk levels.

From February 26 through May 22, 2007 approximately 1,302 yds³ of chloride impacted soil above NMOCD remedial threshold goals were disposed at Sundance Services, Inc.

To prevent vertical migration of residual in situ chloride concentrations a 20-mil polyethylene liner sandwiched between one (1) foot thick layers of cushion sand was placed on the entire bottom of the excavation. The remainder of the excavation was backfilled with clean topsoil to original ground surface. The excavation was backfilled with approximately 1,414 cubic yards of imported top soil. Upon completion of backfill operations, the entire remedial area was graded to allow natural drainage and seeded with a grass blend preferred by the property owner.

- 8.3 If additional groundwater and monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the NMOCD responds to this report. Not Applicable
- 8.4 If corrective action is recommended, provide a conceptual approach. Not Applicable

FIGURES

1.00

2 3

I













<u>Well Data</u>

Conoco Phillips - State "E" Water Transfer Line (NMOCD Ref. #1RP1183; EPIRef. # 150010)

Well Number	Diversion ^A	Owner	Use	Twsp	Fwsp Rng Sec q q q Latitude Longi		Longitude	Date Measured	Surface Elevation ^B	Depth to Water	
											(ft bgs)
CP 00070 2	3	MCVAY DRILLING CO.	STK	22S	36E	16 122	N32° 23' 42.95"	W103° 16' 26.28"	05-Oct-72	3,565	170
USGS #1				22S	36E	16 211			15-Feb-96	3,549	175.28
USGS #2				22S	36E	16 211			07-Mar-86	3,549	174.09
USGS #3				22S	36E	17 141			03-Dec-70	3,565	484.06

Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state nm.us.7001/iWATERS/wr RegisServlet1) and USGS Database

 A = in acre feet per annum

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

STK = 72-12-1 Livestock watering

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

Shaded areas indicate wells not shown on Figure 2

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

ConocoPhillips

State "E" Water Transfer Line

NMOCD #1RP1183; EPI Ref. #150010

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 (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
BH-1 (surface)	Surface	In-Sıtu	19-Apr-05	63	12,000	0.749	2 51	4.55	18 7	26.5	1050	4,140	5,190	37,000
BH-1 (5')	5	In-sıtu	19-Apr-05	0.0	480	<0 0250	< 0.0250	<0.0250	<0 0500	<0.1250	<10 0	<10 0	<20.0	241
BH-1 (10')	10	In-Situ	19-Apr-05	0.0	400									294
BH-1 (15')	15	In-Sıtu	19-Apr-05	0.0	560	-								576
BH-1 (20')	20	In-Sıtu	19-Apr-05	0 0	720									608
BH-1 (25')	25	In-Situ	19-Apr-05	0.0	720									529
BH-1 (30')	30	In-Sıtu	26-Apr-05	0.0	640									577
BH-1 (35')	35	In-Sıtu	26-Apr-05	0.0	560									591
BH-1 (40')	40	In-Situ	26-Apr-05	0.0	480					-				446
BH-1 (45')	45	In-Sıtu	26-Apr-05	0.0	400									305
BH-1 (50')	50	In-Situ	26-Apr-05	0.0	480									389
BH-1 (55')	55	In-Situ	26-Apr-05	0.0	480									461
BH-1 (60')	60	In-Sıtu	26-Apr-05	0.0	800									718
BH-1 (65')	65	In-Situ	27-Apr-05	0.0	1,200	-								1,070

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

ConocoPhillips

State "E" Water Transfer Line

NMOCD #1RP1183; EPI Ref. #150010

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 (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
BH-2 (surface)	Surface	In-Sıtu	27-Apr-05	4.9	12,000	<0 0250	0.0369	0.0368	0.029	0 103	401	18,100	18,501	1,030
BH-2 (5')	5	In-situ	27-Apr-05	0	320	<0 0250	<0.0250	<0.0250	< 0.0500	<0.1250	<10 0	J [6.55}	<20.0	174
BH-2 (10')	10	In-situ	27-Apr-05	0	560									431
BH-2 (15')	15	In-situ	27-Apr-05	0	800									717
BH-2 (20')	20	In-sıtu	27-Apr-05	0.0	560									539
BH-2 (25')	25	In-sıtu	27-Apr-05	0.0	560									580
BH-2 (30')	30	In-sıtu	27-Apr-05	0	560									479
BH-2 (35')	35	In-sıtu	27-Apr-05	0.0	560									526
Background	Surface	In-situ	19-Apr-05		320									22
NN	AOCD Remo	edial Threshold	l Goals	100		10				50			5,000	250 ¹

Bolded values are in excess of NMOCD Remediation Thresholds

¹ Chloride and sulfate residuals may not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/L and 600 mg/L, respectively

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

-- = Not Analyzed

ND = Not Detected

BH = Boring Hole

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips

State "E" Water Transfer Line

NMOCD #1RP1183; EPI Ref. #150010

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 (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SW-1	3	Excavated	25-Apr-06											464
SW-2	3	In-sıtu	25-Apr-06											176
SW-3	3	In-Sıtu	25-Apr-06											64
SW-4	3	In-Situ	25-Apr-06											<16
SW-5	3	In-Sıtu	25-Apr-06											16
SW-6	3	In-Situ	25-Apr-06											272
SW-7	3	In-Situ	25-Apr-06											32
SW-8	3	In-Situ	25-Apr-06											32
SW-9	3	Excavated	25-Apr-06											352
SW-10	3	Excavated	25-Apr-06											848
BH-1	5	Excavated	25-Apr-06											640
BH-2	5	Excavated	25-Apr-06											1,488
BH-3	5	In-Situ	25-Apr-06											224
BH-4	5	In-Situ	25-Apr-06											448

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips

State "E" Water Transfer Line

NMOCD #1RP1183; EPI Ref. #150010

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 (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chlorıde (mg/Kg)
BH-1B	6	Excavated	27-Apr-07											576
BH-2B	6	Excavated	27-Apr-07											928
SW-1B	3	In-situ	27-Apr-07											80
SW-9B	3	In-situ	27-Apr-07											16
SW-10B	3	In-situ	27-Apr-07											32
BH-1C	8	In-situ	16-May-07											656
BH-2C	8	In-situ	16-May-07											1,296
NN	AOCD Rem	edial Threshold	d Goals	100		10	-			50			5,000	250 ¹

Bolded values are in excess of NMOCD Remediation Thresholds

¹ Chloride and sulfate residuals may not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/L and 600 mg/L, respectively

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

-- = Not Analyzed ND = Not Detected

BH = Bottom Sample Hole; SW = Sidewalls

* = No field analyses conducted. Solids would not settle out of solution

APPENDICES

APPENDIX I

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORM



Analytical Report

Prepared for:

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

Project: Conoco Phillips/ State E Lease Project Number: 150010 Location: None Given

Lab Order Number: 5D29014

Report Date: 05/05/05

Project.Conoco Phillips/ State E LeaseProject Number150010Project Manager.Iain Olness

Reported: 05/05/05 11.47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (Surface)	5D29014-01	Soil	04/19/05 09 27	04/29/05 14.10
BH-1 (5')	5D29014-02	Soil	04/19/05 09.32	04/29/05 14.10
BH-1 (10')	5D29014-03	Soil	04/19/05 11.36	04/29/05 14.10
BH-1 (15')	5D29014-04	Soil	04/19/05 12 58	04/29/05 14.10
BH-1 (20')	5D29014-05	Soil	04/19/05 13.38	04/29/05 14 10
BH-1 (25')	5D29014-06	Soil	04/19/05 15 30	04/29/05 14.10
BH-1 (30')	5D29014-07	Soil	04/26/05 08 40	04/29/05 14.10
BH-1 (35')	5D29014-08	Soil	04/26/05 09 37	04/29/05 14 10
BH-1 (40')	5D29014-09	Soil	04/26/05 10 20	04/29/05 14 10
BH-1 (45')	5D29014-10	Soil	04/26/05 11.27	04/29/05 14.10
BH-1 (50')	5D29014-11	Soil	04/26/05 12.44	04/29/05 14 10
BH-1 (55')	5D29014-12	Soil	04/26/05 14.59	04/29/05 14 10
BH-1 (60')	5D29014-13	Soil	04/26/05 16 10	04/29/05 14.10
BH-1 (65')	5D29014-14	Soil	04/27/05 09 00	04/29/05 14 10
BH-2 (Surface)	5D29014-15	Soil	04/27/05 10.15	04/29/05 14.10
BH-2 (5')	5D29014-16	Soil	04/27/05 10.39	04/29/05 14.10
BH-2 (10')	5D29014-17	Soil	04/27/05 11 06	04/29/05 14 10
BH-2 (15')	5D29014-18	Soil	04/27/05 11 18	04/29/05 14 10
BH-2 (20')	5D29014-19	Soil	04/27/05 11.45	04/29/05 14.10
BH-2 (25')	5D29014-20	Soil	04/27/05 12.31	04/29/05 14 10
BH-2 (30')	5D29014-21	Soil	04/27/05 12.44	04/29/05 14.10
BH-2 (35')	5D29014-22	Soil	04/27/05 14.59	04/29/05 14.10
Background	5D29014-23	Soil	04/19/05 00 00	04/29/05 14.10

ProjectConoco Phillips/ State E LeaseProject Number150010Project ManagerIain Olness

Reported: 05/05/05 11 47

Organics by GC

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (Surface) (5D29014-01) Soil									
Benzene	0.749	0.100	mg/kg dry	100	EE50202	04/29/05	05/02/05	EPA 8021B	
Toluene	2.51	0.100		11	и	11	11	н	
Ethylbenzene	4.55	0 100	"		"			**	
Xylene (p/m)	13.8	0.100	u	n		"	11	н	
Xylene (0)	4.89	0.100	**	••	н	"	**	**	
Surrogate a,a,a-Trifluorotoluene		 153 %	80	120	"	"	"	"	S-04
Surrogate 4-Bromofluorobenzene		132 %	80-	120	"	"	"	"	S-04
Gasoline Range Organics C6-C12	1050	10 0	mg/kg dry	1	ED52904	04/29/05	04/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	4140	10.0	51			"	"	••	
Total Hydrocarbon C6-C35	5190	10 0	"	"	"	н	11	н	_
Surrogate 1-Chlorooctane		114 %	70	130	"	"	"	"	
Surrogate 1-Chlorooctadecane		71.0 %	70-	130	"	"	"	n	
BH-1 (5') (5D29014-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50306	05/03/05	05/03/05	EPA 8021B	
Toluene	ND	0.0250	"	н		"	"	**	
Ethylbenzene	ND	0.0250	*	"	u –	"		14	
Xylene (p/m)	ND	0.0250	"			п	u	11	
Xylene (0)	ND	0 0250	"	"	U.	"	"	u	
Surrogate a,a,a-Trifluorotoluene		85.6 %	80	120	"	"	"	"	
Surrogate 4-Bromofluorobenzene		91.0 %	80	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	I	EE50205	05/02/05	05/02/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	н	"	"		н	
Total Hydrocarbon C6-C35	ND	10.0	"		11		u.	н	
Surrogate: 1-Chlorooctane		82.2 %	70	130	"	"	"	"	
Surrogate 1-Chlorooctadecane		74 2 %	70-	130	"	n	"	"	
BH-2 (Surface) (5D29014-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50202	04/29/05	05/02/05	EPA 8021B	
Toluene	0.0369	0.0250	"	u.	"	н	"	н	
Ethylbenzene	0.0368	0 0250	н	"		"	"	11	
Xylene (p/m)	0.0997	0 0250	*	н	"	"	11		
Xylene (0)	0.0294	0 0250		11	"	11	"	u .	
Surrogate a,a,a-Trifluorotoluene		83.8 %	80-1	120	"	"	"	"	
Surrogate 4-Bromofluorobenzene		853%	80-1	120	"	"	"	"	
Gasoline Range Organics C6-C12	401	50 0	mg/kg dry	5	ED52904	04/29/05	04/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	18100	50 0		н	*	н	11	"	
Total Hydrocarbon C6-C35	18500	50 0	"		и	"	"	11	
· · · · · · · · · · · · · · · · · · ·									

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 14

Environmental Plus, Incorporated P O Box 1558 Eunice NM, 88231 ProjectConoco Phillips/ State E LeaseProject Number150010Project Manager.Iain Olness

Reported: 05/05/05 11 47

Organics by GC

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (Surface) (5D29014-15) Soil			,						
Surrogate 1-Chlorooctane		116%	70-1	130	ED52904	04/29/05	04/29/05	EPA 8015M	S-06
Surrogate 1-Chlorooctadecane		130%	70-1	130	n	"	"	"	S-06
BH-2 (5') (5D29014-16) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EE50306	05/03/05	05/03/05	EPA 8021B	
Toluene	ND	0 0250	11	н	"	н	11	n	
Ethylbenzene	ND	0 0250	"	11	"	**	11	**	
Xylene (p/m)	ND	0 0250	"	"	**	*1	11	"	
Xylene (o)	ND	0 0250	"	"	н	"	**	"	
Surrogate a,a,a-Trìfluorotoluene		85.0 %	80-1	20	"	"	"	"	
Surrogate 4-Bromofluorobenzene		94.3 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50205	05/02/05	05/02/05	EPA 8015M	
Diesel Range Organics >C12-C35	J [6.55]	10 0	п		11	н	н	"	J
Total Hydrocarbon C6-C35	ND	10 0	"	п	"	"	"	17	
Surrogate. 1-Chlorooctane		81.0 %	70-1	30	"	"	"	"	
Surrogate. 1-Chlorooctadecane		73.2 %	70-1	30	"	"	"	"	

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

Project · Conoco Phillips/ State E Lease Project Number 150010 Project Manager. Iain Olness

Reported: 05/05/05 11.47

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Г									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (Surface) (5D29014-01) Soil									
Chloride	37000	5000	mg/kg	10000	EE50303	05/02/05	05/02/05	EPA 300 0	
% Moisture	12.5	0 1	%	1	EE50206	04/29/05	05/02/05	% calculation	
BH-1 (5') (5D29014-02) Soil									
Chloride	241	10 0	mg/kg	20	EE50409	05/03/05	05/03/05	EPA 300 0	
% Moisture	11.8	0.1	%	1	EE50301	05/02/05	05/03/05	% calculation	
BH-1 (10') (5D29014-03) Soil									
Chloride	294	25 0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (15') (5D29014-04) Soil									
Chloride	576	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (20') (5D29014-05) Soil									
Chloride	608	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (25') (5D29014-06) Soil									
 Chloride	529	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (30') (5D29014-07) Soil									
Chloride	577	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (35') (5D29014-08) Soil									
Chloride	591	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (40') (5D29014-09) Soil									
Chloride	446	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (45') (5D29014-10) Soil									
Chloride	305	10 0	mg/kg	20	EE50409	05/03/05	05/03/05	EPA 300 0	

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.

Reported: 05/05/05 11 47

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (50') (5D29014-11) Soil		···							
Chloride	389	20.0	mg/kg	40	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (55') (5D29014-12) Soil									
Chloride	461	20 0	mg/kg	40	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (60') (5D29014-13) Soil									
Chloride	718	25 0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (65') (5D29014-14) Soil									
Chloride	1070	50 0	mg/kg	100	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (Surface) (5D29014-15) Soil									
Chloride	1030	50.0	mg/kg	100	EE50303	05/02/05	05/02/05	EPA 300 0	
% Moisture	0.7	0.1	%	1	EE50206	04/29/05	05/02/05	% calculation	
BH-2 (5') (5D29014-16) Soil			_						
Chloride	174	10 0	mg/kg	20	EE50409	05/03/05	05/03/05	EPA 300 0	
% Moisture	12.1	0 1	%	1	EE50301	05/02/05	05/03/05	% calculation	
BH-2 (10') (5D29014-17) Soil				_					
Chloride	431	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (15') (5D29014-18) Soil									
Chloride	717	50 0	mg/kg	100	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (20') (5D29014-19) Soil									
Chloride	539	25 0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (25') (5D29014-20) Soil									
Chloride	580	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	

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

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (30') (5D29014-21) Soil									
Chloride	479	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (35') (5D29014-22) Soil									
Chloride	526	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
Background (5D29014-23) Soil									
Chloride	21.8	5.00	mg/kg	10	EE50303	05/02/05	05/02/05	EPA 300 0	

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.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch ED52904 - Solvent Extraction (GC)											
Blank (ED52904-BLK1)		-		Prepared &	k Analyzed	04/29/05					
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	**								
Surrogate 1-Chlorooctane	363		mg/kg	50 0		72 6	70-130				
Surrogate 1-Chlorooctadecane	38 7		"	50 0		77 4	70-130				
LCS (ED52904-BS1)				Prepared &	k Analyzed	04/29/05					
Gasoline Range Organics C6-C12	430	10 0	mg/kg wet	500		86 0	75-125				
Diesel Range Organics >C12-C35	445	10 0	**	500		89 0	75-125				
Total Hydrocarbon C6-C35	875	10 0	"	1000		87 5	75-125				
Surrogate 1-Chlorooctane	35 6		mg/kg	50 0		71.2	70-130				
Surrogate 1-Chlorooctadecane	36 6		"	50 0		73 2	70-130				
Calibration Check (ED52904-CCV1)				Prepared &	k Analyzed.	04/29/05					
Gasoline Range Organics C6-C12	464		mg/kg	500		92 8	80-120				
Diesel Range Organics >C12-C35	519		11	500		104	80-120				
Total Hydrocarbon C6-C35	983		11	1000		98 3	80-120				
Surrogate 1-Chlorooctane	46 2		"	50 0		92 4	70-130				
Surrogate 1-Chlorooctadecane	37 3		"	50 0		74 6	70-130				
Matrix Spike (ED52904-MS1)	Sou	irce: 5D29001	-01	Prepared &	Analyzed	04/29/05					
Gasoline Range Organics C6-C12	482	10 0	mg/kg dry	533	ND	90 4	75-125				
Diesel Range Organics >C12-C35	575	10 0		533	ND	108	75-125				
Total Hydrocarbon C6-C35	1060	10 0		1070	ND	991	75-125				
Surrogate 1-Chlorooctane	44.0		mg/kg	50 0		88 0	70-130				
Surrogate 1-Chlorooctadecane	36 6		"	50 0		73 2	70-130				
Matrix Spike Dup (ED52904-MSD1)	Sou	rce: 5D29001	-01	Prepared &	Analyzed.	04/29/05					
Gasoline Range Organics C6-C12	483	10 0	mg/kg dry	533	ND	90 6	75-125	0.207	20		
Diesel Range Organics >C12-C35	561	10.0	н	533	ND	105	75-125	2 46	20		
Total Hydrocarbon C6-C35	1040	10 0	н	1070	ND	97 2	75-125	1 90	20		
Surrogate 1-Chlorooctane	42 7		mg/kg	50 0		85 4	70-130				
Surrogate I-Chlorooctadecane	36 2		"	50.0		72.4	70-130				

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

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

ProjectConoco Phillips/ State E LeaseProject Number150010Project ManagerIam Olness

Reported:

05/05/05 11 47

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE50202 - EPA 5030C (GC)										
Blank (EE50202-BLK1)				Prepared &	Analyzed	04/29/05				
Benzene	ND	0 0250	mg/kg wet							
Toluene	ND	0 0250	w							
Ethylbenzene	ND	0 0250	"							
Xylene (p/m)	ND	0 0250	"							
Xylene (0)	ND	0 0250	0							
Surrogate a,a,a-Trifluorotoluene	94 7		ug/kg	100		94 7	80-120			
Surrogate 4-Bromofluorobenzene	101		"	100		101	80-120			
LCS (EE50202-BS1)				Prepared &	. Analyzed	. 04/29/05				
Benzene	94 7		ug/kg	100		94.7	80-120			
Toluene	99 0		"	100		99 0	80-120			
Ethylbenzene	98.0		11	100		98 0	80-120			
Xylene (p/m)	220		"	200		110	80-120			
Xylene (o)	104			100		104	80-120			
Surrogate a,a,a-Trifluorotoluene	111		"	100		111	80-120			
Surrogate 4-Bromofluorobenzene	113		"	100		113	80-120			
Calibration Check (EE50202-CCV1)				Prepared. ()4/29/05 A	nalyzed. 05	5/02/05			
Benzene	89 0		ug/kg	100		89 0	80-120			
Toluene	92 0		"	100		92 0	80-120			
Ethylbenzene	90 0		0	100		90 0	80-120			
Xylene (p/m)	203		"	200		102	80-120			
Xylene (o)	98 4		u	100		98 4	80-120			
Surrogate a,a,a-Trifluorotoluene	105		"	100		105	80-120		·	
Surrogate 4-Bromofluorobenzene	111		n	100		111	80-120			
Matrix Spike (EE50202-MS1)	Sou	rce: 5D28002	-05	Prepared (04/29/05 A	nalyzed. 04	/30/05			
Bcnzene	2310		ug/kg	2500	ND	92 4	80-120			
Toluene	2340		"	2500	ND	93 6	80-120			
Ethylbenzene	2180		п	2500	ND	87 2	80-120			
Xylene (p/m)	4770		"	5000	47 5	94 4	80-120			
Xylene (o)	2150		"	2500	ND	86 0	80-120			
Surrogate a,a,a-Trifluorotoluene	101		"	100		101	80-120			
Surrogate 4-Bromofluorobenzene	100		"	100		100	80-120			

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

Project.Conoco Phillips/ State E LeaseProject Number150010Project ManagerIain Olness

Reported: 05/05/05 11:47

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE50202 - EPA 5030C (GC)										
Matrix Spike Dup (EE50202-MSD1)	Sou	rce: 5D28002	2-05	Prepared.	04/29/05 A	nalyzed 04	/30/05			
Benzenc	2380		ug/kg	2500	ND	95 2	80-120	2 99	20	
Toluene	2440		11	2500	ND	97 6	80-120	4 18	20	
Ethylbenzene	2370		11	2500	ND	94 8	80-120	8.35	20	
Xylene (p/m)	5240		"	5000	47 5	104	80-120	9.68	20	
Xylene (o)	2410		"	2500	ND	96 4	80-120	11.4	20	
Surrogate a,a,a-Trifluorotoluene	96 1		"	100		96 I	80-120			
Surrogate 4-Bromofluorobenzene	114		"	100		114	80-120			
Batch EE50205 - Solvent Extraction (GC)										
Blank (EE50205-BLK1)				Prepared &	a Analyzed	05/02/05				
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	н							
Surrogate 1-Chlorooctane	38 5		mg/kg	50 0		77 0	70-130			
Surrogate 1-Chlorooctadecane	37 4		"	50 0		74 8	70-130			
LCS (EE50205-BS1)				Prepared &	k Analyzed	05/02/05				
Gasoline Range Organics C6-C12	411	10 0	mg/kg wet	500		82.2	75-125			
Diesel Range Organics >C12-C35	444	10 0	н	500		88.8	75-125			
Total Hydrocarbon C6-C35	855	10 0		1000		85 5	75-125			
Surrogate 1-Chlorooctane	35 7		mg/kg	50 0		714	70-130			
Surrogate 1-Chlorooctadecane	398		"	50 0		79 6	70-130			
Calibration Check (EE50205-CCV1)				Prepared &	Analyzed	05/02/05				
Gasoline Range Organics C6-C12	428		mg/kg	500		85 6	80-120			
Diesel Range Organics >C12-C35	520		н	500		104	80-120			
Total Hydrocarbon C6-C35	948		н	1000		94 8	80-120			
Surrogate 1-Chlorooctane	46 4		"	50 0		92 8	70-130			
Surrogate 1-Chlorooctadecane	38 2		"	50 0		76 4	70-130			

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

Reported: 05/05/05 11.47

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE50205 - Solvent Extraction (GC)				<u></u>						
Matrix Spike (EE50205-MS1)	Sou	rce: 5E02002	2-01	Prepared &	& Analyzed	05/02/05				
Gasoline Range Organics C6-C12	411	10 0	mg/kg dry	503	ND	817	75-125			
Diesel Range Organics >C12-C35	545	10.0	"	503	ND	108	75-125			
Total Hydrocarbon C6-C35	956	10 0	н	1010	ND	94 7	75-125			
Surrogate 1-Chlorooctane	40 7		mg/kg	50 0	~	814	70-130			
Surrogate 1-Chlorooctadecane	36 1		"	50 0		72 2	70-130			
Matrix Spike Dup (EE50205-MSD1)	Sou	rce: 5E02002	2-01	Prepared &	& Analyzed.	. 05/02/05				
Gasoline Range Organics C6-C12	495	10 0	mg/kg dry	503	ND	98 4	75-125	18 5	20	
Diesel Range Organics >C12-C35	523	10 0	и	503	ND	104	75-125	4 12	20	
Total Hydrocarbon C6-C35	1020	10 0	"	1010	ND	101	75-125	6.48	20	
Surrogate 1-Chlorooctane	42 0		mg/kg	50 0		84 0	70-130			
Surrogate 1-Chlorooctadecane	35 8		"	50 0		716	70-130			
Batch EE50306 - EPA 5030C (GC)										
Blank (EE50306-BLK1)				Prepared 8	& Analyzed	05/03/05				
Benzene	ND	0 0250	mg/kg wet							
Toluene	ND	0 0250	11							
Ethylbenzene	ND	0 0250	"							
Xylene (p/m)	ND	0 0250	"							
Xylene (0)	ND	0 0250	11							
Surrogate a,a,a-Trifluorotoluene	87 8		ug/kg	100		878	80-120			
Surrogate 4-Bromofluorobenzene	94 7		"	100		94 7	80-120			
LCS (EE50306-BS1)				Prepared &	& Analyzed.	05/03/05				
Benzene	86 9		ug/kg	100		86 9	80-120			
Toluene	90 9			100		90 9	80-120			
Ethylbenzene	91 8		"	100		91.8	80-120			
Xylene (p/m)	208		н	200		104	80-120			
Xylene (o)	99 3		"	100		99 3	80-120			
Surrogate a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate 4-Bromofluorobenzene	117		"	100		117	80-120			

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

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Project Conoco Phillips/ State E Lease Project Number. 150010 Project Manager. Iain Olness

Reported: 05/05/05 11 47

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE50306 - EPA 5030C (GC)										
Calibration Check (EE50306-CCV1)				Prepared ()5/03/05 A	nalyzed 05	/04/05			
Benzene	86 1		ug/kg	100		86 1	80-120			
Toluene	87.3		"	100		87 3	80-120			
Ethylbenzenc	82 6		н	100		82 6	80-120			
Xylene (p/m)	178			200		89.0	80-120			
Xylene (o)	85 5		"	100		85 5	80-120			
Surrogate a,a,a-Trifluorotoluene	99 5		"	100		99 5	80-120			
Surrogate 4-Bromofluorobenzene	88 0		"	100		88 0	80-120			
Matrix Spike (EE50306-MS1)	Sour	ce: 5D29014-	02	Prepared. 0	05/03/05 A	nalyzed 05	/04/05			
Benzene	90 6		ug/kg	100	ND	90 6	80-120			
Tolucne	93 5		"	100	ND	93 5	80-120			
Ethylbenzene	93 6			100	ND	93 6	80-120			
Xylene (p/m)	211		н	200	ND	106	80-120			
Xylene (o)	101		"	100	ND	101	80-120			
Surrogate a,a,a-Trifluorotoluene	101		"	100		101	80-120			
Surrogate 4-Bromofluorobenzene	106		"	100		106	80-120			
Matrix Spike Dup (EE50306-MSD1)	Sourc	ce: 5D29014-	02	Prepared &	Analyzed.	05/03/05				
Benzene	83 2		ug/kg	100	ND	83 2	80-120	8 52	20	
Toluene	85 0			100	ND	85 0	80-120	9 52	20	
Ethylbenzene	82 2		н	100	ND	82 2	80-120	13 0	20	
Xylene (p/m)	182		"	200	ND	91.0	80-120	15 2	20	
Xylene (0)	88.5		н	100	ND	88 5	80-120	13 2	20	
Surrogate a,a,a-Trifluorotoluene	96 0		"	100		96 0	80-120			
Surrogate 4-Bromofluorobenzene	113		"	100		113	80-120			

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

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 EE50206 - General Preparation (Prep)										
Blank (EE50206-BLK1)				Prepared	04/29/05 A	nalyzed 05	5/02/05			
% Moisture	ND	· 01	%							
Duplicate (EE50206-DUP1)	Sou	rce: 5D29001-0	01	Prepared (04/29/05 A	nalyzed 05	5/02/05			
% Moisture	63	01	%		6 2			1 60	20	
Batch EE50301 - General Preparation (Prep)										
Blank (EE50301-BLK1)				Prepared (05/02/05 A	nalyzed. 05	3/03/05			
% Moisture	ND	0 1	%							
Duplicate (EE50301-DUP1)	Sou	rce: 5E02002-0)1	Prepared.	05/02/05 A	nalyzed 05	7/03/05			
% Moisture	0 5	0 1	%		0 5			0 00	20	
Batch EE50303 - Water Extraction										
Blank (EE50303-BLK1)				Prepared &	د Analyzed	05/02/05				
Chloride	ND	0 500	mg/kg					•		
LCS (EE50303-BS1)				Prepared &	ک Analyzed	05/02/05				
Chloride	9 94		mg/L	10 0		99 4	80-120			
Calibration Check (EE50303-CCV1)				Prepared &	ک Analyzed	05/02/05				
Chloride	10 9		mg/L	10 0		109	80-120			
Duplicate (EE50303-DUP1)	Sou	rce: 5D28007-0)4	Prepared &	ک Analyzed	05/02/05				
Chloride	71.7	5.00	mg/kg		72 3			0 833	20	

Environmental Lab of Texas

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 EE50409 - Water Extraction										
Blank (EE50409-BLK1)				Prepared &	2 Analyzed	. 05/03/05				
Chloride	ND	0 500	mg/kg							
LCS (EE50409-BS1)				Prepared &	z Analyzed.	05/03/05				
Chloride	10 3		mg/L	10 0		103	80-120			
Calibration Check (EE50409-CCV1)				Prepared 8	k Analyzed	05/03/05				
Chloride	10 5		mg/L	10 0		105	80-120	· •		
Duplicate (EE50409-DUP1)	Sou	rce: 5D29014-	-02	Prepared &	k Analyzed	05/03/05				
Chloride	217	10 0	mg/kg		241			10 5	20	

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 entirely, with written approval of Environmental Lab of Texas

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
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
- J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag)
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Raland K Iwith Date:

5/5/2005

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 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 14 of 14

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Chain of Custody Form		AVALYSIS REQUEST									میک میکند میکند میکند این از میکند میکند از میکند میکند از میکند میکند از میکند میکند از میکند میکند از میکند میکند میکند از میکند م میکند م میکنم میم می میکند م میکند میکند میکند میکند میکند میکنم میکند میکند میکند میم م میمانم مان م ممانم ممان مام مممام مما م م	:0*=) (C1)	8113	2 X 802 4 8015 LORID LORID LORID - - - - - - - - - - - - - - - - - - -	вт6 тР}- сни лис лис лис лис лис лис лис лис лис ли		X X X SEE REMARKS	X X X			X X X X				↑ X X X		otmail.com	it samples it unit each son boring it anarytes are deregica ni PLEASE CALL IAIN.		125th chimeron chimeron and (3)
						•			ad,		AMPLING		ng Hattiy duga	Syllight of the concernent	TIME	pr 9:27	pr 9:32	pr 11:36	pr 12:58	pr 13:38	pr 15:30	pr 8:40	pr 9:37	pr 10:20	pr 11:27		to: ioiness@h	ANY QUESTIONS.	1	N JER &
		0				sdiii		Abnev	unty Ro	188240	. s		New York Street Stre	adden antarariatian L h *** + 1	DAT	19-A	19-A	A-91	19-A	19-A	19-A	26-A	26-A	26-A	26-A		results	s sample J		。 了 *
		111				Ç.		ohn	õ	ZN	3ER/	ana ana ika ka wa			110		X	X	×	X	$\overline{\mathbf{x}}$		×		X		-mail	noive.		
					N.			с. С	Vest	bbs,	PRE	an second second	BS	A8/0	VCI							_		-			<u>m</u> a	Ĩ	# 290 /#0437	T
						ē		Att	10 V	£				:язн	110		ornease			-										ŝć.
									4			ANT DE VIARIONS		DOGE	าาร	COLOR SE ST				_								(t in	Cred 2 X
					Ļ)					RIX		ור	ο Βαυ	เชอ								Current also			94	A		3	ξh
		ð		101			getmeterst				MAT		antinania ata	1	IOS	×	X	Х	×	×	×	×	×	×	×	N		÷.	بر جزئے	
												R B	atal	NJTEN	AW					-		GUNGH		-			\mathbb{N}		4	
						5						нат	AW	anno	GRi		_	-						-				Na ²	5 3	tact No
S		ļģ			231	-26(SH	IANI	ATNO	3 # C		¥**	***				*	••••				in the second	antier a	よ	01 & In
ex		u s			0 88	394					-	dwo(c)) <u>8</u> () 8AR	(9)	9	9	9	ဗ	5	S	9	ၒ	5	9	i.		걔		କ୍ଷ ହ ତ
S Of T	9763 3	nental Plu	ess SS	X 1558	lew Mexic	3481 / 505	hillips	ease		Gonzales			Ċ,														20/5-2/02	(0835 Dam 1/	7.X10	and the second
IL Lab	ssa, TX 7	Environr	lain Olne	P.O. BO)	Eunice N	505-394-	Conoco F	State E L	150010	Manuel (SAMPLEI			rface)		((((((,	((<u> </u>)	
lenta	ast, Ode 1X: /915		er													H-1 (su	H-1 (5')	H-1 (10	H-1 (15	H-1 (20	H-1 (25	H-1 (30	H-1 (35	H-1 (40	H-1 (45			Ø	K	
vironm	7 West I-20 E	any Name	roject Manag	ng Address	State, Zip	hone#/Fax#	t Company	ty Name	ct Reference	ampler Name		antanting againm	AB I.D.	4014		01 B	03 B	- 03 B	- ₀ 4 B	- 05 B	- 0 ₆ B	- 07 B	- C8 B	B 60 ~	~ 10 B	99 1894 2014	Reinquisind		Store -	and the second
	12600	Comp	EPI P	Mailin	City,	EPI P	Client	Facili	Projet	EPI Sa	arito more		Ĺ) ; ;	, C , C											and Safet	Sampred	Religing		Delwsen

Sheet 1 of 3

ľ

Environmental Labs of Texas

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

(915) 303-1800	FAX: (915) 503-1713																										
Company Name	Environm	ental Plus,	, Inc									Bill	To	2					ANA	£Υ	SIS	RE	QUI	EST			
EPI Project Mana	ager lain Olnes	S																	Π					Π	T	Ī	
Mailing Address	P.O. BOX	1558								1. j.	122.		•														
City, State, Zip	Eunice Ne	w Mexico	882	31	_			C	~	.	-	DI	III	inc	11.2											2 Andrew Colored	
EPI Phone#/Fax#	505-394-3	481 / 505-3	194-2	260	1					NV			цц	ih2													
Client Company	Conoco Ph	illips																			Ì						
Facility Name	State E Le	ase								A	ttn:	Joł	n A	bney		411000X											
Project Reference	e 150010								14	110	We	st C	our	ty Road,													
EPI Sampler Nan	ne Manuel Go	onzales								H	obb	s, I	NM (88240													
			Γ.				MAT	RIX		1999), 1999 (1999) 1999 (1999)	PR	ESE	RV.	SAMF	PLING												
LAB I.D. 5D 29014	SAMPLE I.C).	(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI')	SULFATES (SO4")	pH	TCLP	OTHER >>>	PAH			ניני אין אינון זיין אינון אינון אינון אין אין אין אין אין אינון אינון אין אינון אינון אין אין אין אין אין אין א אינון אינון אינון אינון אינון אינון אינון אינון אין אינון	
-11	BH-1 (50')		G	1			X					x		26-Apr	12:44	X	X	X		الميرينيونسي ا	SE	EF	1EM	ARI	RS		~0
- 12	BH-1 (55')		G	1			X					X		26-Apr	14:59	X	X	X		230-39-M	2240/7580		T	Antoping Subjects	hologona presidente de la construcción de l	(stimpet vite	*****
- t 3	BH-1 (60')		G	1			X					X		26-Apr	16:10	X	X	X			2014/04/05						
- 14	BH-1 (65')		G	1			X					X		27-Apr	9:00	X	X	X		And a second second	****	a an	¥		100000000000000000000000000000000000000		
- 15	BH-2 (surface)	an de la manageriet de la company de la company	G	1			X					X		27-Apr	10:15	X	X	X	Π						Π	T	-
- 16	BH-2 (5')		G	1			X					X		27-Apr	10:39	X	X	X		AND DESCRIPTION OF THE OWNER OF T	SE	EF	REN	AR	KS		7000
- 17	BH-2 (10')		G	1			X					Х		27-Apr	11:06	X	X	X		al an		<u>مۇرىتىت يېنى</u>	T		د ستاوی بونیار	**********	20424
~ 1 ₈	BH-2 (15')		G	1			X					X	[27-Apr	11:18	X	X	X		A44232420	Jickenski (de			Construction of the Construction	and a second		
- 19	BH-2 (20')		G	1			X					X		27-Apr	11:45	X	X	X		Management	-		T	10000	1200001200000		NOW
-20	BH-2 (25')	and a second	G	1			X					Х		27-Apr	12:31	X	X	X		10000000	NCOLOURS		¥				-Other
		1 ⁶⁷						4 1 1																			
Samples Relinquished:	<i>b</i>	Date 124/05 Date 124/05 Date 124/05 Time 2:10 Sample	Rece Rece	ived J iveori and & Inte	act	ab sta		Lux Chr	1. Jecked	By:		E-n REM prev	nail r IARKS Jous :	esults to: i 5: Only analyz sample, ANY * sc= pg	oiness@h a subsequer QUESTIONS 1	nt sar	ail.co nples ASE (om from CALL	each : IAIN.	soil b	loring	a if ar	alyte	s are	detect	ted in	
		Yes)	N	ю			54	1-1																		

Chain of Custody Form

,

sle ionto

Chain of Custody Form

Environmental Labs of Texas

12600 West I-20 East, Odessa, TX 79763

£121-E9	912) 21	FAX: (263-1800	(516)

t 6d aas *											-12 ⁻			ßÀ.	~' بر ockeq	<u>رت</u> ۲			to 0	șini & N) Cool	alqme2			Qemered by			
114:) 35'	1314 1	'SNC)IT23	no y	NA .8	epuo	140 ж	oi siq	msa t	илон	dysed ont es	vianA .eiqma	r send	iveri IAIN.			<i>G</i> 77	×~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	w (j)	بربرد 10 sta	مهر. کلینه (۱۱	~~~? 3 -peni	iboefi Recei	OTHI awij JO-5800		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Aq peusitourieu
u	bet	ereb	916 5	siyte:	ns 1	ອີບເມດ	a lios	цэва	ແດນ (ເມຍ	DO.III DO.III	smio mee i	uenpesdus e NO 229NIO	i :01 stius: Suits to: i	ai) re Syfks	и- Э		Sector Sector						g pan	юзен	5880 2015 50/62/h			Sampler Ralinquistad:
											e e				÷.		÷.,	f i										
																												01
																												6
							L																					S
																								L				4
						L																		L				9
		-								L					<u> </u>													S
								L							L									L				Þ
							<u></u>		X	<u>[</u>	L		19-Apr		X					X			L	ย		pu	Backgrou	E-z
				Î					X	X	X	69:41	1qA-7S		X	ļ				X			Ŀ	9			<u>BH-5 (32.)</u>	22
L	~	<u>S></u>	RA	NEN	Н Э	<u>as</u>		~~~~	X	X	<u> </u>	12:44	74A-75	<u> </u>	X	[L	X			L	ย	and the second states of the s		<u>BH-2 (30')</u>	17
rio bio a ve primerant. Rio bio a ve primerante primer participation de la company de la company de la company				PAH	OTHER >>>	TCLP	pH	SULFATES (SOA	CHLORIDES (CI	TPH 8015M	BTEX 8021B	TIME	ЭТАQ	OTHER	ICE/COOL	ACID/BASE	OTHER:	SLUDGE	CRUDE OIL	SOIL	WASTEWATER	GROUND WATE	# CONTAINERS	(G)RAB OR (C)O		J.I 3J9MA	S	. а.і вај Изресод
				Contraction of the second			ALCONOM NO.		ſ		uther a function		L	L		L				L		╜		MP				
							-					רואפ	9MA2	٠٧۶	IBSB	Rq	L		XIU.	TAM		أمورسند	L	L				Language
													18240	3 MI	N .a	sqq	ρΗ					- تيريمونيدان			səjezuc	Manuel Go	JG	EPI Sampler Nan
								D C C C C C C C C C C C C C C C C C C C					.beoñ vi	unc	4 C	səŴ		51			L			-		150010	8	Project Referenc
Annual the								and on the					Yand	Ţu	dol.	' uţ	ŧά				ļ				əse	State E Le	an and the second s	Facility Name
						anenaete		1000 A			1 Nyanasina											ر موجد الم		-	zailli	Conoco Ph		vnsqmoD IneilD
								-	Į				sdi		H	00	Ol	10	3				560	5-26	E-909 / 18t	202-364-3		EPI Phone#/Fax#
								ALC: No.		-	-		i ji								ļ	البروون الأراب	31	288	w Mexico	Eunice Ne		City. State. Zip
				Afterat melanara		Nacional												•			<u> </u>		and-outers		1228	P.O. BOX		Majlino Address
										L	L					10252	37296	25-451							5	PaniO nisi	Jaer	EPI Project Mana
		<u> </u>	15	HHO	38	SIS	A P	7 IN Q						VL	ang a		130						-	ាក់	auld letne	Environm		ameN vacamoD

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

Client: <u></u>	5P I.
Date/Time	04-29-05 E 1410
Order #:	5D29014
Initials	JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes	No	4,5 C
Shipping container cooler in good condition?	res	No	
Custody Seals intact on snipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles? Seals on bags effort.	Yes	No	Not present
Chain of custody present?	(Tes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	res	No	
Chain of custody agrees with sample label(s)	1000	No	
Container labels legible and intact?	(TES)!	No	
Sample Matrix and properties same as on chain of custody?	(93)	No i	
Samples in proper container/bottle?	Reg	No	
Samples properly preserved?	Res	No	1
Sample botiles intact?	((es)	No I	
Preservations documented on Chain of Custody?	(es)	No	}
Containers documented on Chain of Custody?	(es)	No	2
Sufficient sample amount for indicated test?	Ces 1	No	
All samples received within sufficient hold time?	(ES)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

Contact Person:	Date/Tim	2	Contacted by:	-
Regarding:				

Corrective Action Takan



PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: DAVID P. DUNCAN P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2406

Receiving Date: 04/25/07 Reporting Date: 04/26/07 Project Owner: CÔNOCO PHILLIPS (150010) Project Name: STATE "E" Project Location: NOT GIVEN Analysis Date: 04/26/07 Sampling Date: 04/25/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM

CL

LAB NUMBER	SAMPLE ID	(mg/Kg)
H12512-1	SW-1 (3')	464
H12512-2	SW-2 (3')	176
H12512-3	SW-3 (3')	64
H12512-4	SW-4 (3')	< 16
H12512-5	SW-5 (3')	16
H12512-6	SW-6 (3')	272
H12512-7	SW-7 (3')	32
H12512-8	SW-8 (3')	32
H12512-9	SW-9 (3')	352
H12512-10	SW-10 (3')	848
H12512-11	BH-1 (5')	640
H12512-12	BH-2 (5')	1488
H12512-13	BH-3 (5')	224
H12512-14	BH-4 (5')	448
Quality Control		490
True Value QC		500
% Recovery		98
Relative Percent	Difference	1.0

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

04-26-01 Date

H12512

PLEASE NOTE. Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, as subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Cardinal Laboratories Inc. 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 505-393-2326 Fax 505-393-2476 915-673-7001 Fax 915-673-7020 **Company Name Environmental Plus, Inc.** Bill To S IN LA ANALYSIS REQUEST **EPI Project Manager** David P. Duncan **Billing Address** P.O. BOX 1558 ConocoPhillips City, State, Zip Eunice New Mexico 88231 EPI Phone#/Fax# 505-394-3481 / 505-394-2601 ATTN: Jesse Sosa **Client Company** 1410 North West County Road **ConocoPhillips** State "E" Hobbs, NM 88240 **Facility Name Project Reference** 150010 **EPI Sampler Name Danny Deaton** MATRIX PRESERV. SAMPLING (G)RAB OR (C)OMP. **GROUND WATER** (so₄) CHLORIDES (CI') # CONTAINERS WASTEWATER BTEX 8021B SAMPLE I.D. LAB I.D. Ы ACID/BASE SULFATES ^ ^ ^ **TPH 8015M** ICE/COOL SLUDGE OTHER: CRUDE (OTHER **OTHER** : TCLP SOIL Hd DATE TIME ~ 1 SW-1 (3') G X Х 25-Apr-07 Х 9:15 H12512 G X - 2 SW-2 (3') Х 25-Apr-07 9:20 Х G X 3 SW-3 (3') X 25-Apr-07 9:25 Х - 4 SW-4 (3') G X Х 25-Apr-07 9:30 Х G Х 9:35 X - 5 SW-5 (3') Х 25-Apr-07 G Х X - 6 SW-6 (3') Х 25-Apr-07 9:40 G X - 7 SW-7 (3') X Х 25-Apr-07 9:45 X ____ 8 SW-8 (3') G 9:50 Х Х 25-Apr-07 Х G 9:55 SW-9 (3') Х Х 25-Apr-07 - 9 G Х Х 25-Apr-07 Х -10 SW-10 (3') 10:00 32 M Received By: Sampler Relinquished; 4/25/2007 Email results to David P. Duncan at dduncan@envplus.net Jaron Boone REMARKS: RUSH ORDER Email results to David P. Duncan at dduncan@envplus.net or via fax at 2:30 (505) 394-2601 Relinquished by: 25 Received By: Boon <Ø ranon Checked By: Delivered by: Sample Cool & Intact Yes No

Cardinal Laboratories Inc.

101 East Marland	l, Hobbs, NM 88240						211	11 E	leec	hwo	ood,	, Ab	ilene	e, ⊤X 79603												
505-393-2326 F	Fax 505-393-2476						915	5-67	3-7	001	Fa	ax 9	15-6	673-7020												
Company Name	Environmenta	al Plus,	Inc)_					圣职		3月1日 会社 小		Billy	Го	how a second	75	teres and Alexandress	1A	VAL	YSI	SR	EQ	UES	汀瀚		Ŀ.
EPI Project Man	ager David P. Dun	can							4		5			3. S. S. S. S. S.				\square				\square			Т	
Billing Address	P.O. BOX 155	58							Ċ	A r		<u>.</u>	DI	hilling		} '										
City, State, Zip	Eunice New M	Viexico 8	82	31					-																	
EPI Phone#/Fax	# 505-394-3481	/ 505-39)4-2	260	1						AT	TN:	Jes	se Sosa		1										
Client Company	ConocoPhillip	S							14	10	Nor	th V	Vesi	t County Roa	d											
Facility Name	State "E"										Но	bbs	s, NI	M 88240												
Project Reference	e 150010	· .																								
EPI Sampler Nar	ne Danny Deator	n																								
							MA	TRIX	5		PR	ESE	RV.	SAMPL	ING											
LAB I.D.	SAMPLE I.D.		(G)RAB OR (C)OMF	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4)	Hq	TCLP	OTHER >>>				*
H12512 - 1 1	BH-1 (5')		G				X					Х		25-Apr-07	10:05			X								
-12	BH-2 (5')		G				Х					X		25-Apr-07	10:10			X								
- (3	BH-3 (5')		G				X					X		25-Apr-07	10:15			X								
-14	BH-4 (5')		G				Х					X		25-Apr-07	10:20			X								
5																										
6																										
7																L										_
8																			Ļ							
9								Ļ	L			Ļ				ļ	Ļ	┶	╘		Ļ	Ļ				_
10							L			L		L					L		L		L	L				Es
						豪风					S	物等				Z.				1999 1997 1997					e l	Į I
Sempler Relinduished: Relinduished by: Accord B Delivered by:	coene Time,	25/2007 2:30 25-07 51 Sampler	iece ka iece	ived ived & Int N	By: By/ (Lu act Io	Riabyst	ocs att)	re Nu	A		,	En RE(- (50)	nail r MARK 5) 394	esults to David S: RUSH ORDER -2601	P. Duncan Email results t	at d	dun id P.	can (Dunca	∄en v an at	/pius ddung	s.net	t envpli	us.net	or via	ı lax e	at

PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: DAVID P. DUNCAN P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 04/27/07 Reporting Date: 04/27/07 Project Owner: CONOCO PHILLIPS (150010) Project Name: STATE "E" Project Location: NOT GIVEN Analysis Date: 04/27/07 Sampling Date: 04/27/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM

LAB NUMBER SAMPLE ID

Cl⁻⁻ (mg/Kg)

H12522-1	BH-1B (6')	576
H12522-2	BH-2B (6')	928
H12522-3	SW-1B (3')	80
H12522-4	SW-9B (3')	16
H12522-5	SW-10B (3')	32
	ан на стана стан	
Quality Contr	ol	400
Quanty Conta	UI	490
True Value Q	C	500
% Recovery		98
Relative Perc	ent Difference	0.0

METHOD: Standard Methods4500-CIBNote: Analyses performed on 1:4 w:v aqueous extracts.

04-27-07 Date

H12522

PLEASE NOTE: Liability and Damages. Cardinal's liability and clien's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicability service. In no event shall Cardinal we liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise

Cardinal Laboratories Inc.

Substrate Image: David P. Duncan Billing ANALYSIS REQUE EPI Project Manager David P. Duncan Billing ANALYSIS REQUE Billing Address P. O. BOX 1558 ConcorPhillips ANALYSIS REQUE Cilent Company ConcocPhillips ANALYSIS REQUE Facility Name State "E" Project Reference ISON 155304-2601 Project Reference 150010 EPI Sampler Name Eddle Gaytan LAB I.D. SAMPLE I.D. Image: State "E" PRESERV. SAMPLING H1125 2Z 1 BH-1B (6') G X X 27-Apr-07 11:57 X - 3 SW-1B (3') G X X 27-Apr-07 12:00 X - 3 SW-1B (3') G X X 27-Apr-07 12:00 X - 3 SW-1B (3') G X X 27-Apr-07 12:00 X - 3 SW-10B (3') G X X 27-Apr-07 12:00 X - 3 SW-10B (3') G X X 27-Apr-07 12:00 X - 3 SW-10B (3') G X X 27-Apr-07 12:00 X - 3 SW-10B (3') G X X 27-Apr-07 12:00 X											603 D	e, TX 79600	lene	Abi	ood,		Bee	11 E	21					240	d, Hobbs, NM 88240	101 East Mariano
EPI Project Manager David P. Duncan Billing Address P.O. BOX 1558 City, State, Zip Eunice New Mexico 88231 EPI Phone#/Fax# 505-394-3481 / 505-394-2601 Client Company ConocoPhillips Facility Name State "E" Project Reference 150010 EPI Sampler Name Eddie Gaytan MATRIX PRESERV. Sampler Name Eddie Gaytan III U 25 2Z 1 BH-1B (6') G - 2 BH-2B (6') G - 3 SW-1B (3') G 5 SW-10B (3') G 5 SW-10B (3') G Swame	STRACTOR	UE!	EQ	IS' F	YSI	JAL						1020	75-6 別町	ix 5 読を	ГC Л ^у лос		1-C	5-07	國際			c.	. Ine	, onmental Plus	Environm	Company Name
Billing Address P.O. BOX 1558 City, State, Zip Eunice New Mexico 88231 EPI Phone#/Fax# 505-394-3481 / 505-394-2601 Cilient Company ConocoPhillips Facility Name State "E" Project Reference 150010 EPI Sampler Name Eddie Gaytan LAB I.D. SAMPLE I.D. ai ai bi bi ci				Ē					ETAN ST		19987949974400-	an ai ka Alasseer	40 m 25 d		CLANDING:	NT HE REAL		1999-2408-	12,999,2					P. Duncan	ager David P.	EPI Project Man
City, State, Zip Eunice New Mexico 88231 EPI Phone#/Fax# 505-394-3841 / 505-394-2601 Client Company ConcooPhillips Facility, Name State "E" Project Reference 150010 EPI Sampler Name Eddie Gaytan Image: State "E" MATRIX Project Reference 150010 EPI Sampler Name Eddie Gaytan Image: State "E" MATRIX Presserv SAMPLING Image: State "E" Image: State "E" Project Reference 150010 EVI Sampler Name Eddie Gaytan Image: State "E" Image: State "E" H 12.5 2.2 - 1 BH-1B (6') G - 2 BH-2B (6') G - 3 SW-1B (3') G - 3 SW-1B (3') G - 5 SW-10B (3') G - 6													n						1	-				BOX 1558	P.O. BOX	Billing Address
EPI Phone#/Fax# 505-394-3481 / 505-394-2601 ATTN: Jesse Sosa Client Company ConcorPhillips Facility Name State "E" Project Reference 150010 EPI Sampler Name Eddie Gaytan ATTN: Jesse Sosa 1410 North West County Road Hobbs, NM 88240 Hobbs, NM 88240 Facility Name Eddie Gaytan EPI Sampler Name Eddie Gaytan H12 5 2Z - 1 BH-1B (6') G X X P BH-2B (6') G X - 4 SW-9B (3') G X - 5 SW-10B (3') G X - 5 SW-10B (3') G X - 3 Sw-10B (3') G X - 10												anni br		Çe	ĴO	.Or			1			231	882	e New Mexico	Eunice N	City, State, Zip
Client Company ConcoPhillips Facility Name State "E" Project Reference 150010 EPI Sampler Name Eddle Gaytan LAB I.D. SAMPLE I.D. Sampler Name G K K </td <td></td> <td>1</td> <td>se Sosa</td> <td>Jess</td> <td>TN:</td> <td>AT</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>01</td> <td>260</td> <td>394-</td> <td>94-3481 / 505-3</td> <td># 505-394-3</td> <td>EPI Phone#/Fax</td>											1	se Sosa	Jess	TN:	AT				1		01	260	394-	94-3481 / 505-3	# 505-394-3	EPI Phone#/Fax
Facility Name State "E" Hobbs, NM 88240 Project Reference 150010 EPI Sampler Name Eddle Gaytan LAB 1.D. SAMPLE I.D. BH-1B (6') G C Sampler Name H12.52.21 BH-1B (6') G X - Sampler Name BH-2B (6') G - Sampler Name BH-2B (6') G - X - X - X - X - Switz (3') - X - X - X - X - Switz (3') - X - X - X - X - X - X - X - X - X - X - X - X -										1	/ Road	County R	/est	th V	Nor	410	14		1					coPhillips	ConocoPt	Client Company
Project Reference 150010 EPI Sampler Name Eddle Gaytan LAB I.D. SAMPLE I.D. MATRIX PRESERV. SAMPLING U.B. SAMPLE I.D. G. MATRIX PRESERV. SAMPLING U.B. SAMPLE I.D. G. MATRIX PRESERV. SAMPLING U.B. SAMPLE I.D. G. G. G. G. G. H I 2.5 2.2 1 BH-1B (6') G. X X X Z7-Apr-07 11:57 X I H I 2.5 2.2 1 BH-1B (6') G. X X X Z7-Apr-07 11:57 X I I G. X I X Z7-Apr-07 12:00 X I <thi< th=""> <thi< t<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VI 88240</td><td>, NN</td><td>bbs</td><td>Но</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>"E"</td><td>State "E"</td><td>Facility Name</td></thi<></thi<>												VI 88240	, NN	bbs	Но				1					"E"	State "E"	Facility Name
EPI Sampler Name Eddie Gaytan LAB I.D. SAMPLE I.D. MATRIX PRESERV. SAMPLING H125222-1 BH-1B (6') G X X Z7-Apr-07 11:55 X Image: Simpler Name Image: Simpler Nam																			1					0	ce 150010	Project Reference
LAB I.D. SAMPLE I.D. MATRIX PRESERV. SAMPLING (1) (1			-															_	1					e Gaytan	me Eddie Ga	EPI Sampler Na
LAB I.D. SAMPLE I.D. MOO Sumplex is to pair of the second s										NG	AMPLIN	SAM	RV.	ESE	PR		(TRI	MA			Γ				
H12522-1 BH-1B (6') G X X 27-Apr-07 11:57 X -2 BH-2B (6') G X X 27-Apr-07 11:55 X 1 -3 SW-1B (3') G X X 27-Apr-07 12:00 X 1 -4 SW-9B (3') G X X 27-Apr-07 12:10 X 1 -5 SW-10B (3') G X X 27-Apr-07 12:05 X 1 -6			OTHER >>>	TCLP	Hq	SULFATES (SO4 ³)	CHLORIDES (CI)	TPH 8015M	BTEX 8021B	TIME	E	DATE	отнея	ICE/COOL	ACID/BASE	отнея:	SLUDGE		SOIL	WASTEWATER	GROUND WATER	# CONTAINERS	(G)RAB OR (C)OMP	.E I.D.	SAMPLE I.	LAB I.D.
- 2 BH-2B (6') G X X 27-Apr-07 11:55 X - 3 SW-1B (3') G X X 27-Apr-07 12:00 X 1 - 4 SW-9B (3') G X X 27-Apr-07 12:10 X 1 - 5 SW-10B (3') G X X 27-Apr-07 12:10 X 1 - 5 SW-10B (3') G X X 27-Apr-07 12:05 X 1 - 6 - 5 Sw-10B (3') G X X 27-Apr-07 12:05 X 1 - 6 - 6 - 7<							Χ			11:57	r-07	27-Apr-0		X					X				G		BH-1B (6')	H12522-1
							X			11:55	r-07	27-Apr-0		X					X				G		BH-2B (6')	- 2
- 4 SW-9B (3') G X X 27-Apr-07 12:10 X - 5 SW-10B (3') G X X 27-Apr-07 12:05 X 6 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>12:00</td> <td>r-07</td> <td>27-Apr-0</td> <td></td> <td>X</td> <td></td> <td></td> <td>L</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>G</td> <td></td> <td>SW-1B (3')</td> <td>- 3</td>							X			12:00	r-07	27-Apr-0		X			L		X				G		SW-1B (3')	- 3
- 5 SW-10B (3') G X X 27-Apr-07 12:05 X 6 - - - - - - - 7 - - - - - - - 8 - - - - - - - 9 - - - - - - - 10 - - - - - - -	┶┷┶┷	┡	L				X			12:10	<u>r-07</u>	27-Apr-0		X					X				G		SW-9B (3')	- 4
6 7 7 8 9 10 Sampler Relinquished: 4/27/2007 10 10 Email results to David P. Duncan at dduncan@envplus.net REMARKS: RUSH ORDER Email results to David P. Duncan at dduncan@envplus.net 10		L					X			12:05	<u>r-07</u>	27-Apr-0		X					X				G		SW-10B (3')	- 5
7 8 9 10 Sampler Relinquished: 4/27/2007 10 10 Sampler Relinquished: 10 10 10 Sampler Relinquished: 10 10 10 Sampler Relinquished: 10 10 10 10 10 Sampler Relinquished: 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10			L					Į							1											6
8 9 10 10 Sampler Relinquished: 4/27/2007 Hereing and the second seco	╇	\bot	╞					ļ						Ļ				<u> </u>		<u> </u>		Ļ				7
9 10 Sampler Relinquished: August August			╘					ļ						L			L					Ļ				8
10 Sampler Relinquished: 4/27/2007 Received By: Filme 13:25 Filme 13:25 Sampler Relinquished: (505) 394-2601	╇╋	4	╞	L				┢	\vdash					ļ	ļ	-	_	4	4_	<u> </u>	ļ					9
Sampler Relinquished: Sampler Relinquished: Sampler Relinquished: Sampler Relinquished:	<u>ار ار ا</u>				C N NRABE				L		1000 PC 73 25	and the second of the second					Se Marrier for	1005-100-100	R A. S. (Pre							10
Sampler Relinquished: 4/27/2007 Received By: Time 13:25 Received By: Time 13:25 Received By: (505) 394-2601 Email results to David P. Duncan at dduncan@envplus.net (505) 394-2601						Şter i	105	静 热	in line failte An the failte	Addie State Mail			14.13							構造	U.A.M	187.X				
Haunquisneedby:	<u>it</u> or via fax at	us.ne	i env <u>p</u> i	s.net an@r	/plus Jdunc	env an at g	can @ Dunca	duni Id P. I	at d o Dav	P. Duncan mail results to	David P IDER En	esults to Dav S: RUSH ORDE -2601	ail re IARKS) 394-	Em REN (505		0-		ter M	1.991)	A (1ap s	By:	eived	Rece	4/27/2007 - Time 3:25 Patr 3:25	Sincon	Sampler Relinquished:
$\frac{1}{2 \text{ or } M} \frac{1}{2 $	25 W	12	>			25	<i>+</i>	<u>.</u> ۲.	60	x CT	5					d By:	necke	Cł Cł	<u>fn</u>		tact No	1 & In	الے ان	Samph Yes	Intel	Delivered by:

APPENDIX II

PROJECT PHOTOGRAPHS



Photograph #1 – Produced water pipeline ROW marker



Photograph #2 - Looking north at impacted area. Stained area is contaminated soil



Photograph #3 - Looking north at impacted area and soil excavated to repair the ruptured pipeline



Photograph #4- Excavated area at point of release and dresser repair clamp



Photograph #5 – Excavation area



Photograph #6 – Backfilling excavation area. Preparing for installation of liner.



Photograph #7 – Installation of liner and backfilling of excavation



Photograph #8 – Remediated site



Photograph #9 – Remediated site reseeded



Photograph #10 – Remediated site reseeded

APPENDIX III

SOIL BORING LOGS

					l	_og (]f Test	Borings		(NDTE - Page 1 of 2)
						ſ	Projec	t Number:	150010	· · · · · ·
		Еичі	RONMEN	NTAL F	°∟us, I	NC.	Projec	t Name:	ConocoPhillips Sta	te E Lease
	厂	REM	CONSUL IEDIAL	LTING AI CONSTRI	ND JCTION	ŀ	Location	uL-I.	Section 20. Townsh	nip 22 South, Range 36 Eas
1	μ.	El	UNICE, 505-3	NEV ME 94-3481	XICO	ŀ	Borino N	umberi	SB-1 Surfor	re Flevation: 3 536-fact om
		2	٩	ر س	0110.0					-05 09:27
шe	hple pe	a vo	tur		/Ygis	Pol	e t)		Start Date <u>- 1</u>	00 mel <u>092</u>
	Sai	U L L L L L L L L L L L L L L L L L L L	Mois	Р Б Б С С С	And And And And	S'U S'U	De Cfé		Description	11me:
0927	22			6.3	12.000		Topsoil			
							<u></u>	$\overline{}$	Topsoil S	SAND
										_
0007		 					5			7
0932	<u> </u>		<u> </u>	0.0	480		+		5' CLAY,	Red
							\vdash			-
							\vdash			-
							-			-
1136	22			0.0	400		10		10' CALICHE	, Sand
								.		
										-
										-
	<u> </u>						15	_		Г
1258	22			0.0	560				15' CALICHE	, Sand
							-			-
							—			-
							\vdash			-
1338	SS			0.0	720		20	$\overline{}$	20' CALICHE	. Sand
										·
										-
										-
1500					700		25			_
1230	2.2			<u> </u>	120		+-		<u>25</u> ' SAI	ND
							 			-
										-
										-
0840	22			0.0	640		30		30' 54	
	·									/ _
										-
										-
							- 35	_		-
0937	22			0.0	560		35	<u> </u>	35' SAI	

.

					I	_00	Of Test	t Borings
						- 9	Projec	
1	Щ	Еллі	RONMEI	ntal F	, Lus, Ii	NC.	Projec	ct Name: CanacaPhilling State E Lease
= (`	「	REM	CONSUL EDIAL	LTING A	ND JCTION		Locatio	ani III-I. Section 20. Townshin 22 South Rance 36 Fast
-	[]	El	JNICE, 505-3	NEW MEX 94-3481	XICO		Boring	Number: SB-1 Surface Elevation: 3.536-feet and
		2	به	<u>v</u>	and			Stant Date: 04-19-05 Time: 09:27
a me	ype	hes	stur	Ding Cling	orid J/Kg	S.C.S	eeth	Completion Date: 04-27-05 Time: 09:00
	1s N	Cince Cince	Moj	L es d	And And	Ц Ч	` ≝÷	Description
								_
							-	_
							-	_
	_						4(
1020	52	 		0.0	480		``	40' SAND
							\vdash	_
							\vdash	
	<u> </u>							
1127	22	 		0.0	400			45' SAND
							-	—
1244	52	<u> </u>		0.0	480		30	50' SAND
							—	
							\vdash	—
							5	
1459	22	<u> </u>		0.0	480		55	, <u>55' SAND</u>
		1					-	(f
							\vdash	_
1610	SS			0.0	800			60' SAND
							\vdash	_
							\vdash	_
								65' SAND
0900	22			0.0	1,200			End of Soil Boring at 65' bgs
	Vate	er Leve	(Mens	urement	s (feet	;)		
Date		ie Sa	mple	Casing Denth	Cave-li Denth	n V	ater Dr	irilling Methodi HSA 3.5' ID
<u> </u>				-	-		B	Jackfill Method: Bentonite
L			-			1_	- Fi	ield Representative: JR

.

					L	_og	Of Test	Borings	5	(NDTE - Page 1 of 2)
						{	Projec	t Number:	150010	
	<u> </u>	Еичи		ITAL F	LUS, I	NC.	Projec	t Name:	ConocoPhillips	State E Lease
		REM	EDIAL (Ì	Location	יי UL-I,	Section 20, To	wnship 22 South, Range 36 East
	1* .	EL	505-39	94-3481	VICU	ľ	Boring N	umberi	SB-2 Su	rface Elevation: 3,536-feet amsl
	0	ery s)	a	so	9 2 2 0	60	<u>د</u> ع		Start Date: 04	-27-05 Time: 10:15
Time	Type		listu	PID adin (ppm	iz stori XX	US.	Pept fee		Completion Date	2: 04-27-05 Time: 15:02
	<u>с</u> ,	Re Cine	<u>Ψ</u>	R B	542	20			Descript	lon
1015	22			4.9	12,000		Topsoil		T1 01	
									Iopsoil uit	y uround soll/
	[<u> </u>			
	<u> </u>			ļ			5	L		
1039	52			0.0	320				5′ CL	_AY, Red
	1						-			—
										_
1106	_ 22			0.0	560				10' CAL	ICHE, Clay
										_
			1				-			—
							- 15			—
1118	22			0.0	800				15'	SAND
							-			_
										_
							-			—
1145	52			0.0	560		20		20'	SAND
							<u> </u>			_
							-			_
1231	SS			0.0	560				25	' SAND
	<u> </u>		_							
							_			_
{							-			_
1327	22			0.0	560		30			
						L			30	עזוחט
	ł			÷						_
1	1									_
1502				0.0	560		35	_	25	
[<u></u>		<u>_</u>	0,0	500	L				

·

					L	_og	Of Test	: Borings	;	ſ	(NOTE - Po	age 2 of 2)		
							Project Number: 150010							
		Εννι		NTAL F	, rns' Ii	NC.	Projec	t Name:	ConocoPhill	ips Stat	te E Lease			
. ~		REM	EDIAL	CONSTRU			Location	יי UL-I,	Section 20,	Townsh	ip 22 South,	Range 36 Eas	st	
505-394-3481							Boring N	umber	SB-2	Surfac	e Elevation: 3	3,536-feet am	ารเ	
0	ala	ery (ss)	a L	ا عود	ide sis (g)	s ja	순군		Start Date:	04-27-	05 Time:	10:15		
μ	Samp	e L L L L L L L L	oistu	PID Tipos	hlor ng/K	U.S.C Symb	Dept		Completion 1	Date: <u>0</u> 4	ר <u>4-27-05</u>	Time: <u>15:02</u>		
							Desc	ription 351 SA						
								SJ SANU						
										501 D01 1	ig at 55 kgs	-		
												-	_	
							40					-		
							-					_	-	
												-		
		1					_					-	_	
		1												
							-					_	-	
												-	_	
												-	_	
							50					_		
												_	-	
												-	-	
												_	_	
							55					_		
							-					-	-	
												-	-	
												-	_	
							60					-		
												-	-	
												-	-	
												-	_	
							65					-	_	
												-	_	
	Wate	l er Leve	l Meas	 urement	s (feet	;)				, TD			_	
Date	e Tir	ne Sa De	mple pth	Casing Depth	Cave-lı Depth		ater ^{Ur} evel -	-Low Meth	uai HSA 3.5"				_	
-	-		-	-	-		- Bo	CKFILL Met	nodi Benti	onite 				
							Fle	ld Repres	entative:	JR				

.

APPENDIX IV

COPY OF INITIAL AND FINAL NMOCD FORM C-141

·

District 1
1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210
1000 Rio Brizos Road, Aztec, NM 87410
District IV
1220 S. St. Flancis Dr., Santa Fe, Nint 67505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Submit 2 Copies to appropriate
District Office in accordance
side of form

1000 Rio Brazo District IV	s Road, Azte	c, NM 87410	-	1220	Sout	h St. Franc	is Dr.		District Utifice in accordance with Rule 116 on back side of form				
1220 S. St. Fran	icis Dr., Santi	a Fe, NM 8750		Sa	anta F	e, NM 875		side of form					
			Rel	e as eNo tific	atio	n and Co	mective A	ction			-		
Name of C			Compar		[Contact John	IOR h Abney		al Report		Final Repo		
Address 4	4001 Penbi	rook Street C	dessa, T.	X 79762		Telephone N	lo. (505)391-31	28					
Facility Nat	me State E					Facility Typ	e Water Transfe	er Line	<u> </u>				
Surface Ow	nerLowel	l Cypert		Mineral C	DwnerS	State of NM		Lease 1	Lease No. B-1536				
LOCATION							N OF RELEASE						
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County				
	21	228	30E		<u> </u>				Lea		<u> </u>		
			La	titude <u>32</u> 22.5	19N	Longitude	e 103 16.715W	,	(1517	oʻ			
Turnet		1 117 4		NAT	URE	OF RELE	CASE	1 Maluma I	2				
Source of Re	elease Burie	<u>ced water</u> d 3" Poly Li	ne			Date and H	our of Occurrence	e/07/05 Data and	Hour of Disc	overy	4/7/05 8am		
Was Immedi	ate Notice (Jiven?	Yes 🗖	No 🗌 Not Re	equired	If YES, To Sylvia Dic	Whom?						
By Whom?	Stanley Me	oran				Date and H	out 4/07/05 2:3	0 pm	·····				
Was a Water	course Read	ned?	Yes 🛙] No		IT YES, VO	tume-unpacting ti	ne watercourse.					
If a Watercon	urse was Im	pacted, Descr	ibe Fully. ¹	÷									
NA													
Describe Cau	ise of Proble	em and Reme	dial Action	n Taken.*				· -,.					
One of the placed on the	welds in th	e poly line v I the line ca	vas not he n be repai	olding after the interior of the state of the second s	line wa	s treated with	h acid. The line	was shut in dug	up and a dr	esser s	leeve was		
			•										
Describe Are	a Affected	and Cleanup /	Action Tak	(cn.*			·····						
The affecte	d area is 15	5' X 105'. Th	iere was r	to fluid recovere	ed the s	ite is being d	lelinated to dete	rmine the necess	ary clean u	р ргос	edures.		
I hereby certi	ify that the i	n formation gi	ven above	is true and comp	lete to t	he best of my	knowledge and ut	derstand that purs	suant to NMO	OCD ru	les and		
public health	or the envi	are required to the ronment. The	o report ar	d/or file certain r c of a C-141 repo	elease n ort by th	e NMOCD ma	d perform correct arked as "Final Re	port" does not reli	eases which ieve the oper	may en ator of	danger liability		
should their of	operations h	ave failed to a	adequately	investigate and n	emediat	e contaminatio	on that pose a three the operator of r	at to ground water	r, surface wa	ter, hur	nan health		
federal, state	or local lay	ws and/or regi	alations.	<u></u>									
I N						_	OIL CONS	SERVATION	DIVISIO	N			
Signature: A	onn r	MUCH	<u> An</u>	~ }	{-	HAN Approved by	Jar Zar E	WGR .	0				
Printed Name	e:Vohn Abr	ley					District Superviso	" Ap	liso	<u> </u>			
Title: SHE	aR Special	ist				Approval Date	e: 3,13,0	7 Expiration	Date: 61	23	,07		
E-mail Addre	ess:john.h.a	ibney@conc	cophillip	s.com		Conditions of	Approval:		Attached				
Date: 04/25/	2005		Phone:	(505)391-3128					<u> </u>				
Auach Addi	$\gamma - \gamma$	I Necess	ary M	07000	211	1895							
_V	Julo	ta - F.	PHC	.01085		1017	1						
- 7	·'/		DA(*	07085	54	4-161							
no	der	χ^{-11}			a M	11CAR	79		nn	+	1100		
	ling	tini	-of	140010	80	4201			PP	ן דין	105		
Upp	uca	wir	'F'	, , - ,				1					
V Y			•										

<u>District I</u> 1625 N French D <u>District II</u> 1301 W Grand A <u>District III</u> 1000 R ₁₀ Brazos <u>District IV</u> 1220 S. St. France	r , Hobbs, N venue, Artes Road, Aztec, s Dr., Santa	M 88240 1a, NM 88210 NM 87410 Fe, NM 87505		State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505					Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form				
		ŀ	Release	e Notificatio)n a	and Correc	tive Action						
Name of (lomnon		Dhilling	<u>OPERAT</u>		Contact: Icc		al Repor	t <u> </u>	Final Report			
Address: 1	410 N V	V County	Road	Company	Telephone No : (505) 391-3102								
Facility Na	ame: Sta	te E Wate	r Transf	er Line		Facility Type: Water Transfer Line							
Surface O	wner: M	fillard Dec	k Estate	Mineral (Jw	unar: State of New Movice Logge No + D 1526							
Surface O	·······		K L5tut				F	Lea	30 1101	D 1330			
Unit Letter	Section	Township	Range	Feet from the		OF RELEAS	E Feet from the	East/We	st Line	County			
I	20	228	36E							Lea			
, <u></u>	<u> </u>	L	itudo. N	1220 221 7	 5 !! T	ongitudo. W		<1"		L			
		Lat	ituae: <u>1</u>	<u>N 52 22 51.7.</u>	<u> </u>	Jongnuue: <u>w</u>	103 10 44.0	$\frac{n}{2}$	P-	1183			
Type of Relea	se. Produce	d Water		NATUR	E C)F RELEASE	lease ~88 bhis			ared: 0 bbls			
Source of Rel	ease: 3" but	ried poly line				Date and Hou	r of Occurrence:	Date a	and Hour	of Discovery:			
Was Immedia	te Notice (Given?		·····		April 7, 2005 (If YES, To W	@ 01:00 hrs hom?	April	7, 2005 @	08:00 hrs			
			Yes 🗌	No 🔲 Not Requ	irec	I Sylvia Dickey							
By Whom?	ourse Dee	ahad?				Date and Hour: April 7, 2007 @ 13:30 hrs							
was a water	ourse nea		Yes 🛛 I	No		Not Applicable							
Depth to wate	er: ~250-ft	bgs					· · · · · · · · · · · · · · · · · · ·						
If a Watercou	rse was Im	pacted, Desc	ribe Fully	*.* Not Applicable									
Describe Cau	se of Probl	em and Rem	edial Acti	on Taken.* One o	f the	welds in the poly	line was not hold	ng after the	e line was	treated with acid.			
Describe Area	Affected a	up and a dress and Cleanup	Action Ta	was placed on the aken.* Approxima	tely	1,600 square-feet of	e prepared proper of surface area wa	ly. s impacted	by the rel	ease. Impacted			
soil above NM	OCD reme	dial threshold	goals has	been excavated an	d tra	nsported to Sundar	nce Services, Inc.	for disposa	l. Labora	tory analyses			
in excavation b	ottom were	e isolated with	installati	on of 20-mil polye	thyle	me liner. Excavati	on was backfilled	with clean	topsoil ar	nd remediated area			
graded to allow	v natural dra v that the in	ainage. Reme	diated area	a has been seeded y	vith e to	a blend preferred t	by the land owner	stand that r	oursuant fo	NMOCD rules			
and regulations	s all operato	ors are require	d to repor	t and/or file certain	rele	ase notifications a	nd perform correc	tive actions	s for relea	ses which may			
operator of lial	c health or oility should	the environment of the environme	ent. The a ons have f	cceptance of a C-1 ailed to adequately	41 r inv	eport by the NMO estigate and remed	CD marked as "Fi liate contamination	nal Report' n that pose	' does not a threat to	relieve the ground water,			
surface water,	human heal	th or the envi	ronment.	In addition, NMO	CD a	cceptance of a C-1	41 report does no	t relieve the	e operator	of responsibility			
for compnance	With any 0			an laws and/or reg	OIL CONSERVATION DIVISION								
Signature:	Linn	WXin											
Dut d Newl		V Um			ENVIRENCE Approved by District Supervisor:								
Printed Name	: Jesse Sos	a			<u></u>		p	ULSO	<u> </u>				
Title: HSER	eadi		·····		Approval Date: 7 - 19.07 Expiration Date:								
E-mail Addre	ss: Jesse.A	.Sosa@conoc	ophillips.c	com		Conditions of Approval:							
Date: 17-1	8-07	Phone: (5	05) 391-3	126									
* Attach Ad	ditional	Sheets If	Necessa	iry 🕅	K.	DDA			I				
					•	KPL							

l