CLOSURE REPORT

MEYER B-4 #24

REF: 150005 COMPANY # 217817

UL-H (SE¹/₄ of the NE¹/₄) of Section 4 T21S R36E ~9 Miles Northwest of Eunice Lea County, New Mexico Latitude: N 32° 30' 45.8" Longitude: W 103° 15' 51.0"

APRIL 2006

PREPARED BY:

ENVIRONMENTAL PLUS, INC. 2100 AVENUE O EUNICE, NEW MEXICO 88231

PREPARED FOR:



LETTER OF TRANSMITTAL



Date:	May 15, 2006
To:	Larry Johnson
Company Name:	New Mexico Oil Conservation Division – Hobbs
Address:	1625 French Drive
City / State / Zip:	Hobbs, New Mexico 88240
From:	Jason Stegemoller
CC:	C. John Coy, ConocoPhillips – Hobbs, NM; John Abney, ConocoPhillips –
	Hobbs, NM; Tim Walters, Millard Deck Estate – Landowner; File
Project #:	150005
Project Name:	ConocoPhillips – Meyer B-4 #24
Subject:	Closure Report

# of originals	# of copies	Description
	1	ConocoPhillips – Meyer B-4 #24 – Closure Report

Remarks

Dear Mr. Johnson:

Enclosed is the Closure Report for the ConocoPhillips – Meyer B-4 #24. Should you have any questions or concerns, please feel free to contact Iain Olness or me at (505) 394-3481.

Sincerely,

Jaron Stegemolt

:\Environmental Plus Inc. Documents\Letter of Transmittal.doc

Jason Stegemoller



P. O. Box 1558 Eunice, NM 88240 (505) 394-3481 Fax: (505) 394-2601 **Distribution** List

1

ConocoPhillips-Meyer B-4 #24 (Ref. #150005)

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Company or Agency	New Mexico Oil Conservation Division- Hobbs	ConocoPhilips-Hobbs	ConocoPhillips-Hobbs		Environmental Plus, Inc.
Title	Environmental Engineer	Operations Supervisor	S.H.E.A.R. Specialist	Landowner c/o Bank of America	1
Name	Larry Johnson	C. John Coy	John Abney	Millard Deck Estate, Attn: Tim Wolters	File

STANDARD OF CARE

Closure Report

Meyer B-4 #24 Ref. # 150005

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 the 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 arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental and/or the natural sciences.

This report was prepared by:

aron Ategemoth

Jason Stegemoller, M.S. Environmental Scientist

15 May 2006

Date

This report was reviewed by:

ain Alleren

Iain A. Olness, P.G. Technical Manager

15 May 2006

Date

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Project Synopsis

Site Specific:

- Company Name: ConocoPhillips
- Facility Name: Meyer B-4 #24
- Project Reference 150005
- Company Contacts: John Abney
- Site Location: WGS84 N32° 30' 45.8"; W103° 15' 51.0"
- ♦ Legal Description: Unit Letter H, (SE¼ of the NE¼), Section 4, T21S, R36E
- General Location: approximately 9-miles northwest of Eunice, New Mexico
- Elevation: 3,545-ft amsl Depth to Ground Water: >100-ft
- Land Ownership: Millard Deck Estate
- EPI Personnel: Project Consultant Iain Olness
 - Site Foreman Sebastian Romero

Release Specific:

- Product Released: Oil and produced water
- ◆ Volume Released: ≈13-bbl reported Volume Recovered: None
- Time of Occurrence: 22-September-04 Time of Discovery: 24-September-04
- Release Source: 2" union; integrity lost due to partially plugged flow-line
- Initial Surface Area Affected: 660-ft²

Remediation Specific:

- Final Vertical extent of contamination: 8-ft bgs; Remaining depth to ground water: >100-ft
- Water wells within 1,000-ft: 0 Surface water bodies within 1,000-ft: 0
- NMOCD Site Ranking Index: 0 points (>100-ft to top of water table)
- Remedial goals for Soil: TPH 5,000 mg/kg; BTEX 50 mg/kg; Benzene 10 mg/kg
- Remedial guidelines for Soil: Chloride 250 mg/kg
- RCRA Waste Classification: Exempt
- Remediation Option Selected: a) Excavation of contaminated soil above NMOCD remedial goals; b) laboratory analyses to confirm removal of soil impacted of NMOCD remedial thresholds; c) place compacted clay barrier in excavation floor to isolate residual chloride impacted soil; d) backfill the excavation with clean soil.
- Disposal Facility: J & L Landfarm
- Volume disposed of: ~500-yd³
- Project Completion Date: December 14, 2005

1.0 Summary

This report addresses the site investigation and the proposed remediation of the ConocoPhillips Meyer B-4 #24 release site. In October 2004, Environmental Plus, Inc. (EPI) was retained by ConocoPhillips to delineate the vertical extent of impacted soil at the site due to a release of oil and produced water. This site is located own property owned by the Millard Deck Estate in Unit Letter H, (SE¼ of the NE¼), Section 4, T21S, R36E, approximately nine miles northwest of Eunice, Lea County, New Mexico at latitude N32° 30' 45.8" and longitude W103° 15' 51.0" (reference *Figures 1* and 2). The initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) on September 24, 2004 by ConocoPhillips, reports the release volume as approximately 13-barrels without any recovery. EPI performed GPS surveying, photography and characterization of the site on October 19, 2004. The release impacted approximately 660 square feet (ft^2) of surface area (reference *Figure 3*).

Initial activities at the site consisted of delineating the vertical extent of contamination via a soil boring advanced on October 27, 2004 to a depth of approximately 10-feet below ground surface (bgs). Samples were collected at two, five and ten feet bgs during the advancement of the soil boring for field and laboratory analyses. Field analyses indicated organic vapor concentrations decreased with depth, ranging from 228 parts per million (ppm) at 2-ft bgs to 74.8 ppm at 10-ft bgs. Laboratory analyses indicated total petroleum hydrocarbon (TPH) concentrations at 2-ft bgs were in excess of the NMOCD remedial thresholds for the site. Analyses of the remaining sampling intervals indicated TPH concentrations at 5 and 10-ft bgs and BTEX constituent concentrations at 10-ft bgs were below NMOCD remedial thresholds.

Based on delineation activities, remedial excavation commenced on March 14, 2005 and continued through March 17, 2005. The initial excavation consisted of approximately 325-cubic yards of impacted soil removed from a ~1,300-square feet excavation to a depth of ~6-ft bgs. Excavated impacted soil was transported to J & L Landfarm for treatment.

On March 17, 2005, soil samples were collected from the north, northeast, south and southwest excavation sidewalls and north and south excavation floor for field and laboratory analyses. Field analytical results indicated organic vapor concentrations ranged from 28.1 to 510 parts per million (ppm). Laboratory analytical results indicated chloride impacted soil in excess of the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard remained in the excavation floor and hydrocarbon and chloride impacted soil remained in the south and southwest sidewalls (reference *Table 2*).

Based on field and laboratory analytical results, excavation of impacted soil in the floor and sidewalls resumed on April 26 and 27, 2005. The excavated area increased to the final limit of ~2,500 square feet to a maximum depth of 8-ft bgs. Approximately 180 cubic yards of excavated, impacted soil were transported to J & L Landfarm for treatment. On May 6, 2005, soil samples were collected from the south, southeast and southwest excavation sidewalls and the south excavation floor for laboratory analyses. Analytical results indicated TPH and BTEX constituent concentrations were below NMOCD remedial thresholds. However, chloride residuals in excess of the NMWQCC groundwater standard remained in the south excavation floor (reference *Table 2* and *Figure 4*).

Soil samples were collected from the excavation floor on August 11, 2005 for field and laboratory analyses. Field analytical results indicated chloride concentrations ranged from 200 to 720 mg/Kg. Analytical results indicated chloride concentrations in the southern end of the excavation were in excess of the NMWQCC groundwater standard; however, analytical results for the remaining samples were below NMWQCC chloride groundwater standard.

To isolate residual chloride impacted soil, a one foot thick clay barrier was installed on December 12 and 13, 2005 in the excavation floor in a series of two 6-inch lifts. Analyses to verify compaction (i.e., compaction within 95% Proctor Density) were performed on December 13 and 14, 2005 by the engineering firm of Pettigrew and Associates. Upon verification of proper compaction, the excavation was backfilled on December 14, 2005 with clean soil purchased from the landowner and graded/contoured to allow natural drainage.

2.0 Site Description

2.1 Geological Description

<u>The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and</u> <u>Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A.</u> <u>Clebsch, 1961</u>, 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 Plain physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a hard caliche surface and is almost entirely covered by reddish-brown dune sand". The thickness of the sand cover ranges from 2-5 feet in most areas to as much as 20-30 feet in drift areas.

2.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Querqus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses, flowering annuals and flowering perennials. 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.

2.3 Area Ground Water

The unconfined groundwater aquifer at this site is projected to be >140-ft bgs based on water depth data obtained from the New Mexico State Engineers Office data base.

2.4 Area Water Wells

All recorded wells are greater than 1,000 horizontal feet from the site (reference Figure 2).

2.5 Area Surface Water Features

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

3.0 NMOCD Site Ranking

Contaminant delineation and remedial work done at this site indicate the chemical parameters of the soil and the physical parameters of the groundwater were characterized 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)

Acceptable thresholds for contaminants/constituents of concern (i.e., total petroleum hydrocarbons and benzene, toluene, ethylbenzene, and total xylenes) 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); and,
- Distance to Surface Water Bodies (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 points with the soil remedial goals highlighted in the Site Ranking table presented below.

1. Ground W	ater	2. Wellhead Pro	otection Area	3. Distance to Surface Water
Depth to GW points	/ <50 feet: 20	lf <1,000' from <200' from pri	water source, or; vate domestic water	<200 horizontal feet: <i>20 points</i>
Depth to GV 10 points	/ 50 to 99 feet:	source: 20 po	ints	200-1,000 horizontal feet: 10 points
Depth to GV 0 points	/ >100 feet:	If >1,000' from >200' from pri source: <i>0 poir</i>	water source, or; vate domestic water nts	>1,000 horizontal feet: <i>0 points</i>
		Site Rank (1+2	+3) = 0 + 0 + 0 = 0 p	oints
	Total Site Rani	king Score and	Acceptable Remedial	Goal Concentrations
Parameter	20 or >		10	0
Benzene'	10 ppm		10 ppm	10 ppm
BTEX	50 ppm		50 ppm	50 ppm
ТРН	100 ppm		1,000 ppm	5,000 ppm

¹ A field soil vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis of the benzene and BTEX concentration limits.

4.0 Remedial Investigation and Cleanup

The vertical extent of hydrocarbon contamination at the site was determined with the advancement of a soil boring within the perimeter of the release area associated with the point of release (POR) to a depth of 10-ft bgs on October 27, 2004. Soil samples were collected at 2, 5 and 10-feet bgs. A portion of each sample was placed in a laboratory provided container and set on ice for transport to an independent laboratory. Soil samples collected at 2 and 10-feet bgs were analyzed for TPH, BTEX constituent and chloride concentrations and the sample collected at 5-feet bgs was analyzed for TPH and chloride concentrations. The remaining portion of each sample was analyzed in the field for the presence of organic vapors utilizing an UltraRae PID equipped with a 9.8 eV lamp. Field analyses indicated organic vapor concentrations decreased with depth, ranging from 228 ppm at 2-ft bgs to 74.8 ppm at 10-ft bgs.

Laboratory analytical results indicated benzene concentrations in the samples collected at 2 and 10feet bgs ranged from non-detectable (ND) at or above the laboratory method detection limits to 0.0821 mg/kg, below the NMOCD remedial threshold of 10 mg/kg. Reported BTEX constituents ranged ND to 29.3 mg/kg, below the NMOCD remedial threshold of 50 mg/kg. TPH concentrations in the sample collected at 2-feet bgs were reported at 16,930 mg/kg, in excess of the NMOCD remedial threshold of 5,000 mg/kg. TPH concentrations in the samples collected at 5 and 10-feet bgs were reported to range from 89.8 to 604 mg/Kg. Chloride concentrations were reported to range from 23.1 to 237, below the New Mexico Water Quality Control Commission groundwater standard of 250 mg/L (reference *Table 1*).

The lateral extent of contamination was determined with measurements of organic vapor concentrations as the excavation progressed outwardly from the point of release (POR).

Based on delineation activities, remedial excavation commenced on March 14, 2005 and continued through March 17, 2005. The initial excavation consisted of approximately 325-cubic yards of impacted soil removed from a ~1,300-square feet excavation to a depth of ~6-ft bgs. Excavated impacted soil was transported to J & L Landfarm for treatment.

On March 17, 2005 soil samples were collected from the sidewalls of the excavation. A portion of each sample was placed in a laboratory provided container and submitted to an independent laboratory for quantification of TPH, BTEX constituents and chlorides. The remaining portion of each sample collected in the sidewalls was analyzed in the field for the presence of organic vapors. Field analyses indicated organic vapor concentrations ranged from 28.1 ppm to 510 ppm, with an average concentration of 257 ppm. Analytical results indicated BTEX constituent concentrations ranged from <0.03 mg/Kg to 477mg/Kg, TPH from 11.1 mg/Kg to 15,200 mg/Kg and chloride concentrations of 48 mg/Kg to 880 mg/Kg (reference *Table 2*).

Excavation activities resumed on April 26, 2005 increasing the excavation area to the final limit of ~2,500 square feet to a maximum depth of 8-ft bgs. Approximately 180 cubic yards of excavated, impacted soil were transported to J & L Landfarm for treatment (reference *Figure 4*).

On May 6, 2005, soil samples were taken from the excavation floor and sidewalls and submitted for laboratory quantification of TPH, BTEX constituents and chloride concentrations. Laboratory analytical data indicated BTEX constituent concentrations in all samples were ND at or above laboratory MDL. TPH concentrations were reported to range from ND to 100 mg/Kg, below the NMOCD remedial threshold of 5,000 mg/Kg. Reported chloride concentrations in the excavation sidewalls ranged from 80 to 176 mg/Kg, below the NMWQCC groundwater standard of 250 mg/L. Reported chloride concentrations in the excavation floor (South Bottom) were 4,480 mg/Kg, in excess of the NMWQCC groundwater standard for chloride (reference *Table 2* and *Figure 4*).

Based on analytical results for samples collected on March 17 and May 6, 2005, and telephone conversations with the NMOCD, it was decided to collect additional samples from the southern half of the excavation floor. Soil samples were collected on August 11, 2005 from the southern half of the excavation floor. A portion of each sample was placed in a laboratory provided container and set on ice for transport to an independent laboratory for quantification of chloride concentrations. The remaining portion of each sample was analyzed in the field for chloride concentrations. Field analytical results indicated chloride concentrations ranged from 200 to 720 mg/Kg. Laboratory analytical data indicated chloride concentrations in sample SP-1 (4') were 1,024 mg/Kg, above the NMWQCC chloride groundwater standards of 250 mg/Kg. Chloride concentrations in the remaining samples collected from the south and center portion of the southern excavation floor [i.e., SP-2 (5') and SP-3 (4')] were both reported at 80 mg/Kg, below NMWQCC chloride groundwater standards of 250 mg/Kg (reference *Table 2*).

On December 12 and 13, 2005, 1-foot thick impermeable barrier constructed of dense compacted red clay with a permeability of 1 X 10^{-5} cm/sec. The barrier was placed in the excavation floor and extends a minimum of three feet beyond the edges of soil impacted above the NMWQCC chloride groundwater standard. The barrier was installed in six-inch lifts, compacted and tested by the independent engineering firm Pettigrew & Associates, P.A. to verify that the compaction has achieved a minimum of 95% of its Proctor Density (reference Appendix III). After the barrier was installed and tested to be acceptable, the excavation was backfilled with clean soil purchased from the landowner and graded to allow natural drainage.

5.0 Groundwater Investigation

The projected depth to groundwater at this site is approximately 140-ft bgs. Excavation of the site was to a maximum depth of 8-feet bgs. Analytical data indicated hydrocarbon and chloride impacted soil had been excavated from the sidewalls of the release area. Based on depth to groundwater and soil samples collected from the soil boring and excavation floor, it is believed that groundwater has not been impacted, nor is it likely to be impacted due to this release. Therefore, no further groundwater investigation was deemed necessary.

6.0 Closure Justification

Based on field and analytical data, hydrocarbon and chloride impacted soil above NMOCD remedial thresholds and/or NMWQCC groundwater standard has been excavated and disposed of at J & L Landfarm, except for the southern excavation floor where chloride impacted soil above NMWQCC groundwater standards remains. The remaining source term (i.e., southern excavation floor) was isolated from downward migration with a one-foot thick impermeable barrier constructed of dense compacted red clay. The barrier was placed in the excavation floor and extends a minimum of three feet beyond the edges of soil impacted above the NMWQCC chloride groundwater standard. After the barrier was installed and tested to be acceptable, the excavation was backfilled with clean soil purchased from the landowner and graded to allow natural drainage. The final closure activity at the site is to seed the remediation area with a blend preferred by the landowner.

Environmental Plus, Inc., on behalf of ConocoPhillips, request the NMOCD require no further action and a site closure letter be issued.

FIGURES









TABLES

TABLE 1

.

Summary of Soil Boring Analytical Results

Conoco Phillips Meyer B-4 #24 (Ref. #150005)

Soil Boring	Depth	Sample Date	PID Reading	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	Total BTEX	TPH (as gasoline)	TPH (as diesel)	Total TPH	Chloride
0	(feet)		(wdd)	(µg/Kg)	(µ2/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
	Topsoil (2)	27-Oct-04	228	82.1	3,920	4,960	11,300	090'6	29,322	1,230	15,700	16,930	43.2
SB-1	5	27-Oct-04	89.7	1	1	1		:	:	42.6	561	604	237
	10	27-Oct-04	74.8	<20	<20	<20	<40	<20	<120	Ş	89.8	89.8	23.1
NMOCD	Remedial Thresh	olds	001	10,000					50,000			5,000	250 ^A

Bolded values are in excess of the NMOCD Remediation Thresholds -- = Not Analyzed ^A Chtoride residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L

TABLE 2

Summary of Excavation Analytical Results

Conoco Phillips- Meyer B-4 #24 (Ref. #150005)

Soil Sample I.D,	Depth (feet)	Sample Date	Soil Status	PID Reading (ppm)	Field Chloride (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)	Chioride (mg/Kg)
North Endwall	5	17-Mar-05	ln Situ	28.1	1	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	11.8	11.8	48
Northeast Sidewall	5	17-Mar-05	In Situ	317	:	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	11.1	11.1	880
South Endwall	5	17-Mar-05	Excavated	176	1	0.220	11.4	19.1	446	477	1,340	6,240	7,580	272
South Sidewall	5	6-May-05	In Situ	1	1	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	100	100	176
Southwest Sidewall	5	17-Mar-05	Excavated	510	1	0.597	23.1	31.7	69.4	125	2640	12,600	15,200	560
Southwest Sidewall	5	6-May-05	In Situ	1	1	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	80
North Bottomhole	8	17-Mar-05	In Situ	1	1	<0.005	0.011	0.032	0.145	<0.193	27.3	1,330	1,360	448
South Bottomhole	8	17-Mar-05	In Situ	-	ł	0.010	0.432	1.30	4.00	5.74	546	4,090	4,640	400
South Bottom	10	6-May-05	In Situ	1	I	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	12.4	12.4	4,480
Southeast Sidewall	5	6-May-05	In Situ	-	;	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	80
SP-1 (4')	8	11-Aug-05	In Situ	1	720	1	1	1	1	1	ł	1	1	1,024
SP-2 (5')	10	11-Aug-05	In Situ	1	200	;	1	1	1	1	1	ł	:	80
SP-3 (4')	8	11-Aug-05	In Situ	1	200	;	1	1	:	;	-	1	ł	80
NMU	OCD Ren	iedial Thresho	lds	100		10				50			5,000	250 ^A

Bolded values are in excess of NMOCD Remediation Thresholds -- =Not Analyzed ^AChloride residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L

TABLE 3

Well Data

Conoco Phillips- Meyer B-4 #24 (Ref. #150005)

<u>9</u> .																			
Depth t Water (ft bgs)	96:611	200 43	203.72		- 200	36.73	79.07		120	275		148		195	150	106			
Surface Elevation ^B	3,595,6	3,595	3,595	565'8	3,585	3,540	3,535	3,520	3,530	3,530	3,620	3,535	3,650	3,605	3,537	3,570	3,565	3,565	3,537
Date Measured	18-Mar-68	28-Feb-96	20 Mar 86		=22-Jun-88	1-Mar-61	15-Jan-71		4-Jul-75	8-Oct-79		20-Jul-70		10-Jul-72	25-May-84	30-Apr-93			
Longitude				W 103° 15' 40.54"	W_103° 15' 40.54"			W 103° 15' 36.82"	W 103° 15' 36.82"	W 103° 15' 36.82"	W 103° 17' 59.18"	W 103° 12' 51.03"	W 103° 18' 14.75"	W 103° 16' 11.43"	W 103° 14' 7.98"	W 103° 17' 59.37"	W 103° 13' 52.54"	W 103° 13' 52.54"	W 103° 14' 7.98"
Latitude				Ni32°29'48:76"	N 32° 29' 35:71			N 32° 31' 58.89"	N 32° 31' 58.89"	N 32º 31' 58.89"	N 32° 26' 46.01"	N 32° 26' 45.99"	N 32° 27' 51.41"	N 32° 28' 43.53"	N 32° 27' 51.27"	N 32° 28' 17.46"	N 32° 29' 22.71"	N 32° 29' 22.71"	N 32° 27' 51.27"
Sec q q q	9 2:2.2	9.222	9.2.2.2	10-11-3	-:-:¥:1: 01	31 444	31 322	33 122	33 122	33 122	30 422	25 4 2	19 2 3	16 2	23 2	18 441	11 42	11 42	23 2
Rng	- 36 E -	36 E	- 36E	1,36 E	- 39EE	37 E	37 E	37 E	37 E	37 E	36 E	36 E	36 E	36 E	36 E	36 E	36 E	36 E	36 E
Twsp	21.S.22	21 S	21-S	SIC:	242 SH2	20 S	20 S	20 S	20 S	20 S	21 S	21 S	21 S	21 S	21 S	21 S	21 S	21 S	21 S
Source	Providence State				Shallow-				Shallow	Shallow		Shallow			Shallow	Shallow			
Use				MOG	-WOO.			SAN	SAN	SAN	STK	SAN	STK	STK	SAN	DOM	COM	PRO	DOM
Owner				W.L. Van Noy	research Wills Van Noy, and			Northern Natural Gas	Northern Natural Gas	Northern Natural Gas	Ross Robinson	Northern Natural Gas	U. R. Cattle Company	Snyder Ranches, Ltd.	Dove Broadcasting, Inc.	Joe E. Sims	Will J. McCasland	Chevron USA, Inc.	Laymond Smith
Diversion ^A					a. 1. 3 3			0	3	3	0	3	0	3	3	0	0	0	3
Well Number	DISGS #1	1 SDS0 #2		CP:00692 EXP	CP 00734	USGS #4	USGS #5	L 07108 EXP	L 07355	L 08157	CP 00475 EXP	CP 00484 (E)	CP 00490 EXP	CP 00505	CP 00664	CP 00676	CP 00685 ENLRG	CP 00685 (1) EXP	CP 00882

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

 A = in acre feet per annum

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

DOM = Domestic

SAN = Sanitary STK = Livestock Watering

COM = Commercial

EXP = Expired

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

APPENDIX I

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

						2200 (512	N. Padre 181 385-5886	urive and Dr., FA	tun, Corpus CI X (512)	/8/4 Ilristi, 12 385-7411	78408
Client: Environmental Plus, Inc. Attn: lain Olness						Report#/Lab ID# Project ID: 150	t: 161140 005	Repor	t Date: 1	11/05/04	
Address: 2100 Ave. O						Sample Name: 1	3H-1 (Topsoil)	_			
Eunice,	NM 88231					Sample Matrix: Date Received:	soil 10/29/2004	Time.	10.05		
Phone: (505) 394-3481 FAX: (505)	394-2601					Date Sampled:	10/27/2004	Time:	08:17		
REPORT OF ANALYSIS]					OUALITY A	SURA	NCE DAT	FA 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	15700	mg/Kg	250	<250	11/01/04	8015 mod.		9.1	69.2	84.5	106.4
TPH by GC (as diesel-ext)			1		11/01/04	3570m		1	1		
TPH by GC (as gasoline)	1230	mg/Kg	50	≪0	11/01/04	8015 mod.		6	85.5	90.2	94.1
Chloride	43.2	mg/Kg	2.5	2.5	11/02/04	325.2&9251		0.3	103.91	107.56	97.81
Volatile organics-8260b/BTEX	-				11/05/04	8260b(5030/5035)					
Benzene	82.1	µg/Kg	20	07 7	11/05/04	8260b	S,M	2.6	125.4	91.9	92.3
Ethylbenzene	4960	µg/Kg	1000	<1000	11/03/04	8260b	S,M	1.9	162	106.3	115.2
m,p-Xylenes	11300	μg/Kg	2000	<2000	11/03/04	8260b	S,M	1.2	147.7	102.2	108.3
o-Xylene	0906	µg/Kg	1000	<1000	11/03/04	8260b	S,M	1.6	163.2	109	1.911
Toluene	3920	µg/Kg	20	⊲20	11/05/04	8260b	S,M	4.1	146.1	99.5	101.8
This analytical report is respectfully submitted by Anal have been carefully reviewed and, to the best of my kno are consistent with AnalySys, Inc.'s Quality Assurance Copyright 2003, AnalySys, Inc., Austin, TX. All right publication may be reproduced or transmitted in any for express written consent of AnalySys, Inc.	ySys, Inc. The evelope, the analove of the analove of the analove of the analove of the angle of	inclosed results yrical results Program. © part of this ans without the iubmitted,	 I. Qual of the recover recover (RQL), typicall dilution associa associa than ad 	lity assurance d elative percent (red from a spikk sed as the perce y denote USEP ns. 7. Data Qu ns. 7. Data Qu ted method blai visory limit. M	at a is for the si $(\%)$ difference of sample. at sample. In $(\%)$ recover above the Pra A procedures. A frocedures. I alifiers are J = ink(s). S & S1 sory limit. S3 1 = Matrix inter	ample batch which includ between duplicate measu 4. Calibration Verificatio y of analyte from a known ctical Quantitation Limit Less than ("<") values re analyte potentially presc =MS and/or MSD and PL ference.	ed this sample. rements. 3. Recc n (CCV) and Labb a standard or matr (PQL) of the anal flect nominal qua nt between the PC ry exceed advisor S recoveries exce	2. Precision overy (Reco oratory Cor ix. 5. Rep lytical meth nititation linr 1. and the 1 2. Land the 1 2. Junits. S ced advisory	n (PREC) is vv) is the peter trol Sample orting Quan ord. 6. Me uits adjusted MDL. B = A MDL. B = A 2 = Post dige	the absolu treent (%) o treent (%) res thod numb for any red thor any red thor any red thor spiku	te value f analyte ults are mits ers cred in cred in cred in igher

Client:	Environmental Plus, Inc.	Project ID
Attn:	lain Olness	Sample N
REPORT	COF SURROGATE RECOVERY	

Vame: BH-1 (Topsoil) D: 150005

Report#/Lab ID#: 161140 Sample Matrix: soil

		Data Cualifiers
none/diluted	diluted @ 5X	D
none/diluted	diluted @ 50X	D
108	56-120	3
77.6	71-116	1
none/diluted 108 77.6	dilu	ted @ 50X 56-120 71-116

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 161140 Matrix: soil Client: Environmental Plus, Inc. Attn: Iain Olness

-

Project ID: 150005 Sample Name: BH-1 (Topsoil)

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

■ Sample received in appropriate container(s) and appear to be appropriately preserved. □ Sample received in appropriate container(s). State of sample preservation unknown. □ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Ethylbenzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
m,p-Xylencs	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
o-Xylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Toluene	N,S	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
1-Chlorooctane 1-Chlorooctane	a a	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	ם ם	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

Client: Environmen	tal Plus, Inc.						Report#/Lab ID#	: 161141	Repor	t Date: 1	1/09/04	
Attn: Iain Olness							Project ID: 150	005				
Address: 2100 Ave. C							Sample Name: E	3H-1 (5')				
Eunice,		NM 88231					Sample Matrix:	soil				
							Date Received:	10/29/2004	Time:	10:05		
Phone: (505) 394-3	481 FAX: (505)	394-2601					Date Sampled:	10/27/2004	Time:	08:37		
REPORT OF ANALY	SIS							OUALITY A	SSURA	NCE DA1	<u>[A 1</u>	
Parameter		Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)		561	mg/Kg	2.5	2.5	11/01/04	8015 mod.	1	9.1	69.2	84.5	106.4
TPH by GC (as diesel-	xt)			1		11/01/04	3570m	1	}	1	;	1
TPH by GC (as gasolin	(c)	42.6	mg/Kg	S	Ś	11/01/04	8015 mod.	1	9	85.5	90.2	94.1
Chloride		237	mg/Kg	2.5	2.5	11/02/04	325.2&9251		0.3	103.91	107.56	97.81
This analytical report is res have been carefully review are consistent with AnalySys Dopyright 2003, AnalySys publication may be reprodu express written consent of	pectfully submitted by Anal ed and, to the best of my knc ys, Inc.'s Quality Assurance , Inc., Austin, TX. All righ iced or transmitted in any fo AnalySys, Inc.	yysys, Inc. The evolution of the analoge, the analoge, the analoge, the analoge the analoge the analoge the analoge the analoge the test of test o	mclosed results ytical results part of this ans without the Submitted, ner	1. Quali of the r recover express (RQL), typicall dilution associat recover than ad	ity assurance da elative percent (' ed from a spike ed as the percen typically at or typically at or typically at or ty denote USEP/ s. 7. Data Qué ed method blan y exceeds advise <i>y</i> exceeds advise <i>y</i> exceeds advise	ta is for the sat (%) difference b (%) recovery above the Prac A procedures.] = a ulffiers are J = a (s). S & S1 = ory limit. S3 = =Matrix interfu	mple batch which includ etween duplicate measu of analyte from a knowr tical Quantitation Limit Less than ("<") values re analyte potentially prese MS and/or MSD and PD MS and/or MSD and PD erence.	ed this sample. rements. 3. Recc n (CCV) and Lab n standard or matr (PQL) of the ana flect nominal qua at between the PC ry exceed advisoi S recoveries exce	2. Precision overy (Reco oratory Con ifx. 5. Rep lytical meth initation lir 2. and the A 2. and the A 2. ed advisory ed advisory	n (PREC) is w.) is the per ntrol Sample porting Quan hod. 6. Mel mits adjusted MDL. $B = A_1$ 2. =Post dige y limits. $P = j$	the absolut cent (%) of (LCS) rest (fitation Lin thod numbu for any req nalyte dete sition spike Precision h	e value analyte itts are nits ers urred (PDS) igher

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, , , (N. 14 (512) 385-58	15 • FAX (512) 385-7411
Client: E	nvironmental Plus, Inc.	Pro	oject ID: 1500	05		Report#/Lab ID#: 161141
Attn: la	un Olness	Sai	mple Name: Bl	H-1 (5')		Sample Matrix: soil
REPORT O	F SURROGATE RECOVERY					
Surrogate C	punoduo	Method	Recovery	Recovery Limits	Data Qualifiers	
1-Chloroocta	ne	8015 mod.	87.7	30-125		
p-Terphenyl		8015 mod.	130	30-160		

 1-Chlorooctane
 8015 mod.

 p-Terphenyl
 8015 mod.

 Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Client:	Environmental Plus, Inc.						Report#/Lab ID;	#: 161142	Repoi	rt Date: 1	1/05/04	
Attn:	lain Olness						Project ID: 150	005				
Address:	2100 Ave. O						Sample Name:	BH-1 (10')				
	Eunice,	NM 88231					Sample Matrix:	soil				
							Date Received:	10/29/2004	Time:	10:05		
Phone:	(505) 394-3481 FAX: (505)	394-2601					Date Sampled:	10/27/2004	Time:	09:27		
REPORT	OF ANALYSIS							OUALITY A	SSURA	NCE DAT	A 1]
Paramete		Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. 3	CCV ⁴	LCS ⁴
TPH by G	C (as diesel)	89.8	mg/Kg	2.5	2.5	11/01/04	8015 mod.		9.1	69.2	84.5	106.4
TPH by G	C (as diesel-ext)	1				11/01/04	3570m				i	
TPH by G	C (as gasoline)	Ś	mg/Kg	5	\$	11/01/04	8015 mod.	Ţ	6	85.5	90.2	94.1
Chloride		23.1	mg/Kg	2.5	2.5	11/02/04	325.2&9251		0.3	103.91	107.56	97.81
Volatile or	ganics-8260b/BTEX					11/03/04	8260b(5030/5035)			1	1	1
Benzene		≪20	μg/Kg	20	<20	11/03/04	8260b	S,M	2.6	125.4	91.9	92.3
Ethylbenze	sne	8	µg/Kg	20	8 7	11/03/04	8260b	S,M	1.9	162	106.3	115.2
m,p-Xylen	es	<40	µg/Kg	4	64>	11/03/04	8260b	S,M	1.2	147.7	102.2	108.3
o-Xylene		8	µg/Kg	50	°7	11/03/04	8260b	S,M	1.6	163.2	109	119.1
Toluene		Ş Ş	µg/Kg	20	⊲20	11/03/04	8260b	S,M	4.1	146.1	99.5	101.8
This analyti have been c are consiste Copyright 2 publication express writ	cal report is respectfully submitted by Ana arefully reviewed and, to the best of my kn nt with AnalySys, Inc.'s Quality Assurano (003, AnalySys, Inc., Austin, TX. All righ may be reproduced or transmitted in any fr iten consent of AnalySys, Inc.	LySys, Inc. The owledge, the anal e/Quality Control its reserved. No orn or by any me orn or by any me orn or by any me Dale Wag	inclosed results ytical results Program. © part of this ans without the Submitted,	1. Quali of the re recover expresse (RQL), typically dilutioni associat recovery than adv	ty assurance da lative percent (ed from a spike ed as the percen typically at or typically at or denote USEP/ s. 7. Data Qui ed method blan ed method blan v exceeds adviss visory limit. M	ta is for the si %) difference d sample. th (%) recover above the Pra A procedures. diffiers are J = k(s). S & SI sy limit. S3 = =Matrix inter	ample batch which includ between duplicate measu 4. Calibration Verificatio y of analyte from a knowy ctical Quantitation Limit Less than ("<") values re analyte potentially prese =MS and/or MSD and PI ference.	led this sample. rements. 3. Record an (CCV) and Labor (CCV) and Labor a standard or matr (PQL) of the anal flect nominal quant flect nominal quant to between the PQ sry exceed advisor SS recoveries exce	2. Precision wery (Recc oratory Cor ix. 5. Rep ytical meth fur and the 1 fur and the 1 y limits. S ed advisory	n (PREC) is t vv.) is the peru ntrol Sample porting Quante thod. 6. Mett nits adjusted f MDL. B =An MDL. B =Ar 2. =Post diges 2. =Post diges 2. P=F	he absolute the absolute (LCS) result (LCS) result itation Lim hod numbe or any require or any require the detection recision hi	s value analyte lts are uits are ars ited in (PDS) gher

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REPORT OF SURROGATE RECOVERY				
Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	75	30-125	
p-Terphenyl	8015 mod.	110	30-160	1
1,2-Dichloroethane-d4	8260b	105	56-120	
Toluene-d8	8260b	114	71-116	

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Sample Name: BH-1 (10')

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

I Sample received in appropriate container(s) and appear to be appropriately preserved. **D** Sample received in appropriate container(s). State of sample preservation unknown. **D** Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

			Ì
Parameter	Qualif	Comment	
TPH by GC (as gasoline)	ſ	See J-flag discussion above.	
Benzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.	
Ethylbenzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.	
m.p-Xylenes	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.	
o-Xylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.	
Toluene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.	
Votes:]

12111 Danger Press, 11/2/01-

Dangut #/I ah IN#.

12600 West I-20	East Odessa, TX 79763																							
(915) 563-1800	FAX: (915) 563-1713	:						İ																
Company Name	Environmental P	us, Inc	5					「「「「「「「「「」」」」		9	I						NAI	ISX-	SB	EQ)ES			
EPI Project Man	ager Iain Olness															┢─	┝─	┝	┡	┡	ļ			Γ
Mailing Address	P.O. BOX 1558										╡													
City, State, Zip	Eunice New Mex	co 882	231							m	٩	ZURCEO MARINEZZO MARINEZZO												
EPI Phone#/Fax	# 505-394-3481 / 50	5-394-	-260	_					8	\checkmark		-												
Client Company	Conoco Phillips																							
Facility Name	Meyers B-4 24								Attı	ו: la	in O	lness											•••••	
Project Referen	ce 150005								ā,	ы С	X 1	558,									<u>سو</u> د حد داد			ويستغلق
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						MAT	ž			RES	ERV	SAM	PLING											
LAB I.D.	SAMPLE I.D.	୩୦୦(୦) ନଠ ଶ୍ରନ୍ମ(୭)	# CONTAINERS	RATAW DNUORE	AJTAWJTSAN	POIL				CE/COOF	ЯЭНТС	DATE	TIME	81208 X3T8	M3108 Hg	HLORIDES (CI')	ULFATES (SO4 ⁻)	UI b		HA				
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161141 2	(BH-1 (5')	с С	-			X		\vdash		×		27-Oct	0837	×	×	×	┢─	┟─	┞─	┢	┞			Τ
161142 a	s BH-1 (10')	ပ				×		Η		×		27-Oct	7270	×	×	×	┢─	╀─		-	<u> </u>			Γ
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Chain of Custody Form

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Environmental Labs of Texas

Sample Analysis Case Narrative

Client: Environmental Plus, Inc. Project ID: 150005

Attn: lain Olness

for Sample #'s: <u>161140</u> thru <u>161142</u>

Analyzed by AnalySys, Inc.

Final Review Date: <u>11/12/2004</u> By:

Case Narrative:

The recoveries of several BTEX compounds in the Matrix Spikes (MS&MSD) for the analytical batch that contained sample #'s 161140 and 161142 were above normal laboratory acceptance criteria. The Laboratory Control Sample (LCS) run with this batch met recovery acceptance criteria for each compound indicating that the analytical method was operating correctly and in control. Although spike recoveries are high for these compounds, neither of the above referenced samples were the spiked sample. When viewed within the context of the passing LCS data, and the acceptable surrogate recoveries seen for each sample, this deviation in spike recovery should have a minimal impact on data usability.

(D. Wagner)



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: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/21/05 Reporting Date: 03/23/05 Project Number: 150004 Project Name: MEYER B-4 324 Project Location: NOT GIVEN

True Value QC

% Recovery

Sampling Date: 03/17/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/JD

		GRO	DRO		
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*	
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	
ANALYSIS DA	ATE	03/22/05	03/22/05	03/23/05	
H9645-1	NORTH ENDWALL	<10.0	11.8	48	
H9645-2	NORTHEAST SIDEWALL	<10.0	11.1	880	
H9645-3	SOUTH ENDWALL	1340	6240	272	
H9645-4	SOUTHWEST SIDEWALL	2640	12600	560	
H9645-5	NORTH BOTTOMHOLE	27.3	1330	448	
H9645-6	SOUTH BOTTOMHOLE	546	4090	400	
Quality Contro	1	779	793	1000	

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts.

800

97.4

9.5

Buy anthe Coole

Relative Percent Difference

3/23/05

800

99.2

2.4

1000

100

5.0

H9645A.XLS

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, 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.



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: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/21/05 Reporting Date: 03/23/05 Project Number: 150004 Project Name: MEYER B-4 324 Project Location: NOT GIVEN Sampling Date: 03/17/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DA	TE	03/22/05	03/22/05	03/22/05	03/22/05
H9645-1	NORTH ENDWALL	<0.005	<0.005	<0.005	<0.015
H9645-2	NORTHEAST SIDEWALL	< 0.005	<0.005	< 0.005	<0.015
H9645-3	SOUTH ENDWALL	0.220	11.4	19.1	446
H9645-4	SOUTHWEST SIDEWALL	0.597	23.1	31.7	69.4
H9645-5	NORTH BOTTOMHOLE	< 0.005	0.011	0.032	0.145
H9645-6	SOUTH BOTTOMHOLE	0.010	0.432	1.30	4.00
Quality Control		0.104	0.094	0.102	0.314
True Value QC	· · · · · · · · · · · · · · · · · · ·	0.100	0.100	0.100	0.300
% Recovery		104.0	94.0	102	105.0
Relative Perce	nt Difference	4.9	5.5	3.8	2.8

METHOD: EPA SW-846 8260

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	ANALYSIS REQUEST										ТРН 8015М SULFATES (SO, [†]) рН TCLP OTHER >>>				X X X I I I I I X X	X X X X X X X X X X						34-2601		
79603 020				2	~	oad				SAMPLING	Щ Т ВТЕХ 8021В	Mar 9:58 X	Mar 10:18 X	Mar 9:27 X	Mar 9:37 X	Mar 10:29 X	Mar 10:38 X	1	ŀ			o lain Olness 505-31		
d, Abilene, TX Fax 915-673-7	BIITO		illind occ		N: John Abne	lest County R	obs, NM 88240	-		RESERV. S	A OTHER OTHER	X-71 X	X 17-N	X 17-N	X 17-N	X 17-N	X 17-N					Fax Results T REMARKS:	[1
111 Beechwoo 15-673-7001				ミラノ	ATT	1410 W	Hot		,	ATRIX F	OLHEK: OLHEK: SFNDGE CKNDE OIF SOIF		X	X *	X	X	X					Caro	allard,	Checked By:
00										M	AJTAW GNUOAĐ AJTAWJTSAW											and the	r: (lab staff)	
	Inc.			88231	94-2601						(6) RAB ОЯ (С) ОМР В СОИТАІИЕRS	U	U U	G	G	G	U U		1	1		Repetited B	Received B	Cool & Intac No
	nentai Plus,	SS	(1558	ew Mexico 8	3481 / 505-39	hillips	4 324		one		Ġ				1					£.		Date 347-05 F	121/05	Sample (
Hobbs, NM 88240 x 505-393-2476	Environn	jer lain Olne	P.O. BOX	Eunice N	505-394-3	ConocoPt	Meyer B-	150004	e Roger Bc		SAMPLE I.	iorth Endwall	lortheast Sidewall	outh Endwall	outhwest Sidewal	lorth Bottomhole	outh Bottomhole					De	Cer de la certa	
101 East Marland, 505-393-2326 Fa	Company Name	EPI Project Manag	Billing Address	City, State, Zip	EPI Phone#/Fax#	Client Company	Facility Name	Project Reference	EPI Sampler Nam		LAB I.D.	N1 1-2474M	N⊿ √	<u>ت ک</u> 3	م م ا	-< 5N	6 6 <mark>S</mark>	7	œ	9	10	Sampter Religiquished: COL	Reinquishort by	Delivered by:



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: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 05/11/05 Reporting Date: 05/13/05 Project Owner: CONOCO PHILLIPS/150004 Project Name: MEYER B-4 #24 Project Location: NOT GIVEN Sampling Date: 05/06/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

GRO	DRO	
(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	Cl*
(mg/Kg)	(mg/Kg)	(mg/Kg)
	GRO (C ₆ -C ₁₀) (mg/Kg)	GRO DRO (C ₆ -C ₁₀) (>C ₁₀ -C ₂₈) (mg/Kg) (mg/Kg)

ANALYSIS D	DATE	05/11/05	05/11/05	05/12/05
H9789-1	SOUTH BOTTOM	<10.0	12.4	4480
H9789-2	SOUTHEAST SIDEWALL	<10.0	<10.0	80
H9789-3	SOUTH SIDEWALL	<10.0	100	176
H9789-4	SOUTHWEST SIDEWALL	<10.0	<10.0	80
Quality Contr	rol	740	758	960
True Value C	2C	800	800	1000
% Recovery		92.5	94.8	96.0
Relative Perc	cent Difference	1.7	6.4	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts.

H9789A.XLS

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

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

Receiving Date: 05/11/05 Reporting Date: 05/13/05 Project Owner: CONOCO PHILLIPS/150004 Project Name: MEYER B-4 #24 Project Location: NOT GIVEN Sampling Date: 05/06/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

		BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
LAB NO.	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE	05/12/05	05/12/05	05/12/05	05/12/05
H9789-1	SOUTH BOTTOM	< 0.005	< 0.005	<0.005	<0.015
H9789-2	SOUTHEAST SIDEWALL	< 0.005	<0.005	<0.005	<0.015
H9789-3	SOUTH SIDEWALL	< 0.005	< 0.005	<0.005	<0.015
H9789-4	SOUTHWEST SIDEWALL	<0.005	<0.005	<0.005	<0.015
Quality Co	ntrol	0.090	0.088	0.094	0.295
True Value		0.100	0.100	0.100	0.300
% Recover	у	90.1	87.7	94.3	98.5
Relative Po	ercent Difference	0.4	0.5	7.5	6.5

METHOD: EPA SW-846 8260

Date

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Cardinal

101 East Marland, Hobbs, NM 88240

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020

505-393-2326 Company Name	Fax 505-393-2476 Environmental Plus	, Inc.	915-6	73-70	5	Fax (915-(673-7020							3 S		1977 1977		
EPI Project Man	ager lain Olness						Constant in the second				-								
Billing Address	P.O. BOX 1558		r	C	Ş	Ì												-	
City, State, Zip	Eunice New Mexico	88231	-)		5	5							_		-			
EPI Phone#/Fax	# 505-394-3481 / 505-3	394-2601	r		F A	ňä	hh	Abney	I										
Client Company	ConocoPhillips		ſ	14	10 V	/est	Cou	nty Road								-		-	
Facility Name	Meyer B-4 #24		1		Hol	obs,	MN	88240											
Project Referent	ce 150004				· .							_	_				والجينية		
EPI Sampler Nat	ne Joe Gatts																_		
			MATRI	×		RES	ERV.	SAMF	JLING										
LAB I.D.	SAMPLE I.D.	RO(C) RO BAR(C) READINATION RECOUND WATER WASTEWATER	CUNDE OIF SOIF	SLUDGE	OTHER:	ICE/COOL	Отнев	DATE	TIME	BTEX 8021B	Matos HqT	CHLORIDES (CI)	Hd	тсгр	OTHER >>>	an an ann an	<u></u>		
1 1-93CPH	South Bottom	G	X			×		6-May	10:01	×	×	╘	<u> </u>				┢╴	┢╴	Ļ
2 イト,	Southeast Sidewall	ច	Х			X		6-May	10:07	×	×	┢					┢	┢─	
କ୍	South Sidewall	C	X			×		6-May	10:15	Х	×	×						┝	
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Samplar Ralinquishad:	22/11/05	Repetived By:	All	POV	エヤ		X Re: MARK:	sults To lai	l Olness (02-3 02-3	94-26	5							
poppered by:	teron martings	Cool & Intach		hecked	$\overline{\langle}$!	:			
1										l					ł]



Analytical Report

Prepared for:

Iain Olness Environmental Plus, Incorporated P.O. Box 1558

Eunice, NM 88231

Project: Conoco Phillips/ Warren McKee #23 Project Number: 150012 Location: None Given

Lab Order Number: 5G22012

Report Date: 07/26/05

Environmental Plus, Incorporated	Project:	Conoco Phillips/ Warren McKee #23	Fax: 505-394-2601
P.O. Box 1558	Project Number:	150012	Reported:
Eunice NM, 88231	Project Manager:	Iain Olness	07/26/05 16:52

ANALYTICAL REPORT FOR SAMPLES

.

Laboratory ID	Matrix	Date Sampled	Date Received
5G22012-01	Soil	07/20/05 08:00	07/22/05 13:21
5G22012-02	Soil	07/20/05 08:12	07/22/05 13:21
5G22012-03	Soil	07/20/05 08:20	07/22/05 13:21
5G22012-04	Soil	07/20/05 08:30	07/22/05 13:21
5G22012-05	Soil	07/20/05 08:42	07/22/05 13:21
5G22012-06	Soil	07/20/05 08:55	07/22/05 13:21
5G22012-07	Soil	07/20/05 09:05	07/22/05 13:21
5G22012-08	Soil	07/20/05 09:17	07/22/05 13:21
5G22012-09	Soil	07/20/05 09:28	07/22/05 13:21
5G22012-10	Soil	07/20/05 09:42	07/22/05 13:21
5G22012-11	Soil	07/20/05 08:00	07/22/05 13:21
5G22012-12	Soil	07/20/05 08:12	07/22/05 13:21
5G22012-13	Soil	07/20/05 08:20	07/22/05 13:21
5G22012-14	Soil	07/20/05 08:30	07/22/05 13:21
	Laboratory ID 5G22012-01 5G22012-02 5G22012-03 5G22012-04 5G22012-05 5G22012-06 5G22012-07 5G22012-08 5G22012-09 5G22012-10 5G22012-11 5G22012-12 5G22012-13 5G22012-14	Laboratory ID Matrix 5G22012-01 Soil 5G22012-02 Soil 5G22012-03 Soil 5G22012-04 Soil 5G22012-05 Soil 5G22012-06 Soil 5G22012-07 Soil 5G22012-08 Soil 5G22012-09 Soil 5G22012-10 Soil 5G22012-11 Soil 5G22012-12 Soil 5G22012-13 Soil	Laboratory ID Matrix Date Sampled 5G22012-01 Soil 07/20/05 08:00 5G22012-02 Soil 07/20/05 08:12 5G22012-03 Soil 07/20/05 08:20 5G22012-04 Soil 07/20/05 08:30 5G22012-05 Soil 07/20/05 08:42 5G22012-06 Soil 07/20/05 08:55 5G22012-07 Soil 07/20/05 09:05 5G22012-08 Soil 07/20/05 09:17 5G22012-09 Soil 07/20/05 09:28 5G22012-10 Soil 07/20/05 09:42 5G22012-10 Soil 07/20/05 09:42 5G22012-11 Soil 07/20/05 08:12 5G22012-12 Soil 07/20/05 08:12 5G22012-13 Soil 07/20/05 08:20 5G22012-14 Soil 07/20/05 08:20

Page 1 of 14

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

Environmental Plus, Incorporated P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ Warren McKee #23 Project Number: 150012 Project Manager: Iain Olness

Reported: 07/26/05 16:52

Organics by GC

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 (3') (5G22012-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Toluene	ND	0.0250	"		н		н		
Ethylbenzene	ND	0.0250	н	"	"	u	"	"	
Xylene (p/m)	ND	0.0250	11	"	н	"	"	11	
Xylene (o)	ND	0.0250	H		"		n	н	
Surrogate: a,a,a-Trifluorotoluene		86.3 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.7 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	**	н	"	"	u	
Total Hydrocarbon C6-C35	ND	10.0	"	۲	и	"	н	u	
Surrogate: 1-Chlorooctane		71.0 %	70-1	30	"	п	'n	"	
Surrogate: 1-Chlorooctadecane		77.8 %	70-1	30	"	н	"	"	
SW-2 (3') (5G22012-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Toluene	ND	0.0250	н	"	"	н	"	п	
Ethylbenzene	ND	0.0250		**		н	"	"	
Xylene (p/m)	ND	0.0250	11	"	"	н	н		
Xylene (o)	ND	0.0250	•	"	*	u	"	н	
Surrogate: a,a,a-Trifluorotoluene		89.5 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.3 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	n	"	"	н	н	
Total Hydrocarbon C6-C35	ND	10.0	11	и	"	"	"	11	
Surrogate: 1-Chlorooctane		72.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		77.2 %	70-1	30	"	"	"	n	
SW-3 (3') (5G22012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Toluene	ND	0.0250	11	17		"	п	11	
Ethylbenzene	ND	0.0250	11	н			"	u	
Xylene (p/m)	ND	0.0250	11	и		n	n	91	
Xylene (o)	ND	0.0250	*1	u	11	"	н	n	
Surrogate: a,a,a-Trifluorotoluene		90.4 %	80-1	120		"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	80-1	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	н	"		"	n		
Total Hydrocarbon C6-C35	ND	10.0		"	н	"	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.

Environmental Plus, Incorporated P.O. Box 1558 Eunice NM, 88231		Project N Project M	Project: Cono lumber: 1500 anager: Iain (oco Philli 12 Olness	ps/ Warren l	McKee #23		Fax: 505-3 Repor 07/26/05	394-2601 • ted: 5 16:52
		O 1	rganics by	GC			· · · · · · · · · · · · · · · · · · ·		
		Environ	mental La	b of T	exas				
		Reporting			<u> </u>				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SW-3 (3') (5G22012-03) Soil									
Surrogate: 1-Chlorooctane		71.6 %	70-13	0	EG52214	07/22/05	07/23/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		77.8 %	70-13	0	"	"	"	"	
SW-4 (3') (5G22012-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Toluene	ND	0.0250	11		н	н		u	
Ethylbenzene	ND	0.0250	n	м		и		10	
Xylene (p/m)	ND	0.0250		н		н	"		
Xylene (0)	ND	0.0250	n	"	. 81	"	"	**	
Surrogate: a,a,a-Trifluorotoluene		92.3 %	80-120)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120)	"	н	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	1000
Diesel Range Organics >C12-C35	ND	10.0	**	"	11	"		u	
Total Hydrocarbon C6-C35	ND	10.0	H		N	н	"	**	
Surrogate: 1-Chlorooctane		71.2 %	70-130)	"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.2 %	70-130)	"	"	n	n	
SW-5 (3') (5G22012-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Toluene	ND	0.0250	u	"	n	n	"	N	
Ethylbenzene	ND	0.0250	"	и	••	"	"		
Xylene (p/m)	ND	0.0250		"	11		"	"	
Xylene (o)	ND	0.0250	"	н	N	н	۲	H	
Surrogate: a,a,a-Trifluorotoluene		85.9 %	80-120)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.1 %	80-120)	n	"	n	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	u	н	"	*	*	"	
Fotal Hydrocarbon C6-C35	ND	10.0	n	n		11	n	'n	
Surrogate: 1-Chlorooctane		71.8 %	70-130)	"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.8 %	70-130)	"	"	"	"	

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 3 of 14

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Environmental Plus, Incorporated P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ Warren McKee #23 Project Number: 150012 Project Manager: Iain Olness

Organics by GC

Reported: 07/26/05 16:52

Environmental Lab of Texas Reporting Analyte Result Limit Units Dilution Batch Prepared Analyzed Method Notes SW-6 (3') (5G22012-06) Soil EPA 8021B Benzene ND 0.0250 mg/kg dry 25 EG52501 07/25/05 07/25/05 ND 9 Toluene 0.0250 . Ethylbenzene ND 0.0250 ., н ш Xylene (p/m) 0.0250 ND ... Xylene (o) ND 0.0250 н ., Surrogate: a,a,a-Trifluorotoluene 97.7% 80-120 ,, ,, " ,, Surrogate: 4-Bromofluorobenzene 86.1 % 80-120 ., Gasoline Range Organics C6-C12 ND 10.0 mg/kg dry 1 EG52214 07/22/05 07/23/05 EPA 8015M . Diesel Range Organics >C12-C35 ND 10.0 ., ., .. Total Hydrocarbon C6-C35 ND 10.0 н ., 11 " ., Surrogate: 1-Chlorooctane 82.0 % 70-130 Surrogate: 1-Chlorooctadecane 71.4% 70-130 SW-7 (3') (5G22012-07) Soil 25 EG52501 07/25/05 07/25/05 EPA 8021B Benzene ND 0.0250 mg/kg dry Toluene 0.0250 ... 11 ND Ethylbenzene 0.0250 •• ND ΞŪ. 0.0250 Xylene (p/m) ND 0.0250 ч ., " н Xylene (o) ND ... 92.6 % " " ,, " Surrogate: a,a,a-Trifluorotoluene 80-120 83.5 % 80-120 Surrogate: 4-Bromofluorobenzene Gasoline Range Organics C6-C12 10.0 mg/kg dry EG52214 07/22/05 07/23/05 EPA 8015M ND 1 ... Diesel Range Organics >C12-C35 10.0 ND Total Hydrocarbon C6-C35 10.0 ., .. н ND Surrogate: 1-Chlorooctane 71.0% 70-130 ,, " " " Surrogate: 1-Chlorooctadecane 72.6% 70-130 SW-8 (3') (5G22012-08) Soil EPA 8021B Benzene ND 0.0250 mg/kg dry 25 EG52501 07/25/05 07/25/05 Toluene ND 0.0250 Ethylbenzene ND 0.0250 ... Xylene (p/m) ND 0.0250 ., ., 0.0250 Xylene (o) ND " " 84.9 % 80-120 " " Surrogate: a,a,a-Trifluorotoluene 80.5 % 80-120 Surrogate: 4-Bromofluorobenzene EPA 8015M Gasoline Range Organics C6-C12 10.0 mg/kg dry EG52214 07/22/05 07/23/05 ND 1 Diesel Range Organics >C12-C35 10.0 ,, ND Total Hydrocarbon C6-C35 ,, н ,, 10.0 ND 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,

vecence in the taboratory, this analytical report must be reproduced in its en with written approval of Environmental Lab of Texas.

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Page 4 of 14

Environmental Plus, Incorporated P.O. Box 1558 Eunice NM, 88231		Project N Project M	Project: Con Number: 150 Ianager: Iain	ioco Philli 012 Olness	ps/ Warren	McKee #23		Fax: 505- Repo 07/26/0	-394-2601 orted: 15 16:52
		0	rganics by	y GC					
		Environ	mental La	ab of To	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-8 (3') (5G22012-08) Soil									
Surrogate: 1-Chlorooctane		73.4 %	70-1.	30	EG52214	07/22/05	07/23/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		76.0 %	70-1.	30	"	n	n	"	
SW-9 (3') (5G22012-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Foluene	ND	0.0250	w	n	'n	n	w	**	
Ethylbenzene	ND	0.0250	"	M		"	"	11	
Kylene (p/m)	ND	0.0250	"	"		н		n	
Xylene (o)	ND	0.0250	**	n	n	'n	۳	w	
Surrogate: a,a,a-Trifluorotoluene		83.7 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-12	20	"	"	"	н	
Basoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	Ħ	u	"	**	"		
Total Hydrocarbon C6-C35	ND	10.0			u	"	11	"	
Surrogate: 1-Chlorooctane		71.2 %	70-13	30	"	"	"	n	
Surrogate: 1-Chlorooctadecane		75.0 %	70-13	80	"	"	"	"	
SW-10 (3') (5G22012-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
oluene	ND	0.0250	"	H	u	v	**	"	
Sthylbenzene	ND	0.0250	н	"	"	н	u	•	
(ylene (p/m)	ND	0.0250	**	"	u.	"	H	U	
(ylene (o)	ND	0.0250	"	"	17	"	11	"	
urrogate: a,a,a-Trifluorotoluene		91.7 %	80-12	20	"	"	"	"	
urrogate: 4-Bromofluorobenzene		86.9 %	80-12	20	"	n	н	"	
Basoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	н	"	u	и	"	м	
Total Hydrocarbon C6-C35	ND	10.0	"	11	*	"	"	"	
Surrogate: 1-Chlorooctane		70.8 %	70-13	0	"	"	"	"	
urrogate: 1-Chlorooctadecane		75.8 %	70-13	0	"	"	"	"	

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Environmental Plus, Incorporated P.O. Box 1558 Eunice NM, 88231 Project: Conoco Phillips/ Warren McKee #23 Project Number: 150012 Project Manager: Iain Olness

Reported: 07/26/05 16:52

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1 (6') (5G22012-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/26/05	EPA 8021B	
Toluene	ND	0.0250		"	н	**	п	н	
Ethylbenzene	ND	0.0250	"	"		"	н	11	
Xylene (p/m)	ND	0.0250	и	н			н	"	
Xylene (o)	ND	0.0250	u	"	"		**	u	
Surrogate: a,a,a-Trifluorotoluene		97.1 %	80	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.3 %	80	120	"	"	"	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	I	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	н	н	n	н	11	ч	
Total Hydrocarbon C6-C35	ND	10.0	11	н	"		11	14	
Surrogate: 1-Chlorooctane		82.2 %	70	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.6 %	70	130	"	"	"	"	
B-1 (9') (5G22012-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	н		•	
Ethylbenzene	ND	0.0250	"	н	"	"			
Xylene (p/m)	ND	0.0250	"	н	"			"	
Xylene (o)	ND	0.0250	"	11		н	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.8 %	80	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.9 %	80	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0		"	u	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	n	н	n	"	"	и	
Surrogate: 1-Chlorooctane		75.6 %	70	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		78.6 %	70-	130	"	"	"	"	
B-2 (6') (5G22012-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Toluene	ND	0.0250		"			н		
Ethylbenzene	ND	0.0250	**	"		н	11	11	
Xylene (p/m)	ND	0.0250	"		"	"	11	н	
Xylene (o)	ND	0.0250	н	"	"	11	" 	"	
Surrogate: a,a,a-Trifluorotoluene		92.2 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.1 %	80-	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	н	"	11		"	
Total Hydrocarbon C6-C35	ND	10.0	11	11	"	н	"	н	

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Environmental Plus, Incorporated	Project: Conoco Phillips/ Warren McKee #23	Fax: 505-394-2601							
P.O. Box 1558	Project Number: 150012	Reported:							
Eunice NM, 88231	Project Manager: Iain Olness	07/26/05 16:52							
	Organics by GC								
	Environmental Lab of Texas								
	Denorting								

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2 (6') (5G22012-13) Soil									
Surrogate: I-Chlorooctane		74.4 %	70-13)	EG52214	07/22/05	07/23/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		70.2 %	70-130)	"	n	n	"	
B-3 (4') (5G22012-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	EPA 8021B	
Toluene	ND	0.0250	н	н	н		"	u	
Ethylbenzene	ND	0.0250	н	"	**	۳	**	v	
Xylene (p/m)	ND	0.0250	н	u		۳			
Xylene (0)	ND	0.0250	н	н	н		"		
Surrogate: a,a,a-Trifluorotoluene		87.4 %	80-120)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.3 %	80-120)	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/24/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	P	н	"	H	"	н	
Total Hydrocarbon C6-C35	ND	10.0	u	*	w	n	w	u	
Surrogate: 1-Chlorooctane		82.6 %	70-130)	"	"	"	"	
Surrogate: 1-Chlorooctadecane	2	74.4 %	70-130)	"	"	"	"	

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 (3') (5G22012-01) Soil									
Chloride	614	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.0	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-2 (3') (5G22012-02) Soil									
Chloride	284	5.00	mg/kg	10	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	1.7	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-3 (3') (5G22012-03) Soil									
Chloride	592	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.1	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-4 (3') (5G22012-04) Soil									-
Chloride	47.0	5.00	mg/kg	10	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	1.2	0.1	%	I	EG52516	07/22/05	07/25/05	% calculation	
SW-5 (3') (5G22012-05) Soil	·								
Chloride	957	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	3.7	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-6 (3') (5G22012-06) Soil									
Chloride	761	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	7.8	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-7 (3') (5G22012-07) Soil									
Chloride	687	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.6	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-8 (3') (5G22012-08) Soil									
Chloride	678	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.6	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	

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Project: Conoco Phillips/ Warren McKee #23 Project Number: 150012 Project Manager: Iain Olness

07/26/05 16:52

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SW-9 (3') (5G22012-09) Soil							· · · · · · · · ·		
Chloride	688	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	3.8	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-10 (3') (5G22012-10) Soil									
Chloride	234	5.00	mg/kg	10	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.2	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
B-1 (6') (5G22012-11) Soil									
Chloride	1790	25.0	mg/kg	50	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	7.6	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
B-1 (9') (5G22012-12) Soil									
Chloride	1910	25.0	mg/kg	50	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	8.2	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
B-2 (6') (5G22012-13) Soil									
Chloride	290	5.00	mg/kg	10	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	10.0	0.1	%	١	EG52516	07/22/05	07/25/05	% calculation	
B-3 (4') (5G22012-14) Soil									
Chloride	710	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	9.4	0.1	%	I	EG52516	07/22/05	07/25/05	% calculation	

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Reported:

07/26/05 16:52

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 EG52214 - Solvent Extraction (GC)										
Blank (EG52214-BLK1)				Prepared: (07/22/05 A	nalyzed: 07	7/23/05			
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	42.5		mg/kg	50.0		85.0	70-130			
Surrogate: 1-Chlorooctadecane	39.0		"	50.0		7 8 .0	70-130			
LCS (EG52214-BS1)				Prepared: 0)7/22/05 A	nalyzed: 07	//23/05			
Gasoline Range Organics C6-C12	427	10.0	mg/kg wet	500		85.4	75-125			
Diesel Range Organics >C12-C35	433	10.0		500		86.6	75-125			
Total Hydrocarbon C6-C35	860	10.0	u	1000		86.0	75-125			
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	70-130		 .'	
Surrogate: 1-Chlorooctadecane	39.5		"	50.0		79.0	70-130			
Calibration Check (EG52214-CCV1)				Prepared: 0)7/22/05 Ai	nalyzed: 07	/24/05			
Gasoline Range Organics C6-C12	435		mg/kg	500		87.0	80-120			
Diesel Range Organics >C12-C35	479		"	500		95.8	80-120			
Total Hydrocarbon C6-C35	914		н	1000		91.4	80-120			
Surrogate: 1-Chlorooctane	53.3		"	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	39.9		"	50.0		79.8	70-130			
Matrix Spike (EG52214-MS1)	Sou	rce: 5G22012	2-01	Prepared: 0)7/22/05 Ai	nalyzed: 07	/23/05			
Gasoline Range Organics C6-C12	447	10.0	mg/kg dry	510	ND	87.6	75-125			
Diesel Range Organics >C12-C35	444	10.0	н	510	ND	87.1	75-125			
Total Hydrocarbon C6-C35	891	10.0	"	1020	ND	87.4	75-125			
Surrogate: 1-Chlorooctane	54.3	~~~~~	mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	42.1		"	50.0		84.2	70-130			
Matrix Spike Dup (EG52214-MSD1)	Sou	rce: 5G22012	2-01	Prepared: 0	07/22/05 Ai	nalyzed: 07	/23/05			
Gasoline Range Organics C6-C12	423	10.0	mg/kg dry	510	ND	82.9	75-125	5.52	20	
Diesel Range Organics >C12-C35	465	10.0	u	510	ND	91.2	75-125	4.62	20	
Total Hydrocarbon C6-C35	888	10.0		1020	ND	87.1	75-125	0.337	20	
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130			•
Surrogate: 1-Chlorooctadecane	42.2		"	50.0		84.4	70-130			

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Project: Conoco Phillips/ Warren McKee #23 Project Number: 150012 Project Manager: Iain Olness

Reported: 07/26/05 16:52

	O	rganics by	y GC - Q	uality Co	ontrol					
		Environ	mental L	ab of Te	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG52501 - EPA 5030C (GC)										<u></u>
Blank (EG52501-BLK1)		<u> </u>	<u></u>	Prepared &	Analyzed:	: 07/25/05			//	
Benzene	ND	0.0250	mg/kg wet	· · · · ·						
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250	**							
Xylene (p/m)	NĎ	0.0250	n							
Xylene (o)	ND	0.0250	18							
Surrogate: a,a,a-Trifluorotoluene	94.8		ug/kg	100		94.8	80-120			
Surrogate: 4-Bromofluorobenzene	82.7		"	100		82.7	80-120			
LCS (EG52501-BS1)				Prepared &	Analyzed:	07/25/05				
Benzene	118		ug/kg	100		118	80-120			
Toluene	120			100		120	80-120			
Ethylbenzene	116		н	100		116	80-120			
Xylene (p/m)	230		н	200		115	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	106		"	100		106	80-120	••		
Surrogate: 4-Bromofluorobenzene	95.1		· #	100		9 5.1	80-120			
Calibration Check (EG52501-CCV1)				Prepared &	Analyzed:	07/25/05				
Benzene	91.0		ug/kg	100		91.0	80-120			
Toluene	90.5		"	100		90.5	80-120	•		
Ethylbenzene	84.5		"	100		84.5	80-120			
Xylene (p/m)	167		"	200		83.5	80-120			
Xylene (0)	84.3		"	100		84.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	83.0		"	100		83.0	80-120			
Surrogate: 4-Bromofluorobenzene	81.7		n	100		81.7	80-120			
Matrix Spike (EG52501-MS1)	Sour	ce: 5G22013	-02	Prepared &	Analyzed:	07/25/05				
Benzene	94.8		ug/kg	100	ND	94.8	80-120			
Toluene	96.8		"	100	ND	96.8	80-120			
Ethylbenzene	90.9		"	100	ND	90.9	80-120			
Xylene (p/m)	179		н	200	ND	89.5	80-120			
Xylene (0)	85.1		*1	100	ND	85.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	80.5		"	100		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	81.9		"	100		81.9	80-120			

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Organics by GC - Quality Control

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Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG52501 - EPA 5030C (GC)									
Matrix Spike Dup (EG52501-MSD1)	Sou	rce: 5G22013-02	Prepared &	& Analyzed	: 07/25/05				
Benzene	92.5	ug/kį	100	ND	92.5	80-120	2.46	20	
Toluene	96.4	"	100	ND	96.4	80-120	0.414	20	
Ethylbenzene	91.3	11	100	ND	91.3	80-120	0.439	20	
Xylene (p/m)	180		200	ND	90.0	80-120	0.557	20	
Xylene (o)	82.2	"	100	ND	82.2	80-120	3.47	20	
Surrogate: a,a,a-Trifluorotoluene	85.7	"	100		85.7	80-120			
Surrogate: 4-Bromofluorobenzene	80.1	"	100		80.1	80-120			

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Environmental Plus, Incorporated		Р	roject: C	onoco Phillip	s/ Warren N	1cKee #23			Fax: 505-	394-2601
P.O. Box 1558		Project Nu	imber: 15	50012					Repo	rted:
Eunice NM, 88231		Project Ma	nager: la	in Olness					07/26/0	5 16:52
General Cl	hemistry Para	meters by	· EPA /	Standard	l Methoo	ls - Qua	lity Con	trol		
		Environn	nental l	Lab of Te	xas					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG52516 - General Preparation (Prep)									
Blank (EG52516-BLK1)				Prepared: (07/22/05 A	nalyzed: 07	/25/05			
% Moisture	ND	0.1	%							
Duplicate (EG52516-DUP1)	Sou	rce: 5G21014	-01	Prepared: (07/22/05 Ai	nalyzed: 07	/25/05			
% Moisture	5.5	0.1	%		5.7			3.57	20	
Batch EG52606 - Water Extraction										
Blank (EG52606-BLK1)				Prepared &	Analyzed:	07/25/05				
Chloride	ND	0.500	mg/kg							
LCS (EG52606-BS1)				Prepared &	: Analyzed:	07/25/05				
Chloride	10.2	·	mg/L	10.0		102	80-120			
Calibration Check (EG52606-CCV1)				Prepared &	: Analyzed:	07/25/05				
Chloride	10.0	····	mg/L	10.0		100	80-120			
Duplicate (EG52606-DUP1)	Sour	-ce: 5G22011-	01	Prepared &	Analyzed:	07/25/05				
Chloride	16.7	5.00	mg/kg		14.9			11.4	20	

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Reported: 07/26/05 16:52

Notes and Definitions

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
Dun	Duplicate

Report Approved By:

Ciliz D Kune Date:

7/26/2005

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.

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Chain of Custody Form

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(915) 563-1800	FAX: (915) 563-1713																								
Company Name	Environme	ntal Plus,	Inc.																1100		12 3	100			
EPI Project Man	ager lain Olness																					-			
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client:	EPI
Date/Time:	7/22/05 13:21
Order #: _	5-32012
Initials:	CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-25 C
Shipping container/cooler in good condition?	(ies	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	YES	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	YES	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	1 X 88	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Ves	No	í
Samples properly preserved?	YES	No	
Sample bottles intact?		No	
Preservations documented on Chain of Custody?	i Ces i	No	
Containers documented on Chain of Custody?	(es	No	
Sufficient sample amount for indicated test?	1 Ces	No	
All samples received within sufficient hold time?	Tes	No	
VOC samples have zero headspace?	Yes)	No	Not Applicable

Other observations:

Contact Person: Regarding:	Variance Documentation: Date/Time:	_ Contacted by:	
Corrective Action Taken:			[
			[.
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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: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 08/12/05 Reporting Date: 08/12/05 Project Owner: CONOCO PHILLIPS Project Name: MEYER B-4 #24 Project Location: NOT GIVEN

I AB NUMBER

Analysis Date: 08/12/05 Sampling Date: 08/11/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

> Cl⁻⁻ (ma/Ka)

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H10078-1	SP-1 (4')	1024
H10078-2	SP-2 (5')	80
H10078-3	SP-3 (4')	80
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		· ·
Quality Control		970
True Value QC		1000
% Recovery		97.0
Relative Percent	Difference	3.0

SAMPLE ID

METHOD: Standard Methods 4500-CIB Note: Analysis performed on a 1:4 w:v aqueous extract.

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, improved the second sec

Cardinal Laboratories Inc.

101 East Marland, Hobbs, NM 88240

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020

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93-2476	Environmental Plus,	lain Olness	P.O. BOX 1558	Eunice New Mexico	505-394-3481 / 505-3	ConocoPhillips	Meyer B-4 #24	150004	George Blackburn		SAMPLE I.D.											1110-12/02		T S S 4	Sampler	
Fax 505-33	9	nager			×#	7		Sce	ame			1 SP-1 (4')	2 SP-2 (5')	3 SP-3 (4')	4	5	9	7	80	6	0	00-00		Som		
000-393-2320	Company Nam	EPI Project Ma	Billing Addres	City, State, Zip	EPI Phone#/Fa	Client Compan	Facility Name	Project Referer	EPI Sampler N		LAB I.D.	H10078-1	، م	'n							1	Sampler Relinquished:	Relinquished by:	Jeron F.	Delivered by:	

APPENDIX II

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PROJECT PHOTOGRAPHS



Photo #1: Release area, looking northerly at point of release. Photo #2: Looking down on release area. Soil staining indicates contamination.



Photo #3: Release area, looking southerly.



Photo #4: Looking southerly at southeast side of excavation.



Photo #5: Looking northerly at north end of excavation.



Photo #6: Looking southerly at south end of excavation.



Photo #7: Looking northerly at site backfilled and graded.



Photo #8: Looking northerly at site backfilled and graded.

APPENDIX III

SOIL BORING LOG

					L	.og [f Test	Borings		(NDTE - Page 1 of 1)
							Project	Number: 150005		L
					LUS, IN		Project	Name: Conoco I	Phillips Meyer	r B-4 #24
				LU LAND	FARM A	ן עא	ocation	UL-H, Section	4, Township	21 South, Range 36 East
			505-	-394-348	31		oring Nu	mber: SB-1	Surfa	ce Elevation 3,545
Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Comple	Date: <u>10/27/04</u> tion Date: <u>10/2</u>	Time: 27/04 Tir Description	0815 hrs _{mei} 0930 hrs
0817	Grab	NA	Da	228	SP		SANI)		
0837	CS	6	Dry	89.7	Caliche	5	Calic	he		
0927	Cuttings	NA	Dry	74.8	Rock	1 1	Limes	tone		
							End	of Boring at 12.0) '	_
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Date	Wate	r Levi	el Meas	Casino	s (feet	;) n I Vr	ter Dril	ling Method: HS	A 3.5" ID	
10/27/0	14 -	D	epth -	Depth	Depth		vel Bac	kfill Methodi	Bentonite	
-			-		-		- Fiel	d Representativ	re: MG	

APPENDIX IV

CLAY LINER COMPACTION RESULTS

THE PLANE STREET	1	LABORATORY TEST I PETTIGREW & ASSO 1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827	REPORT CIATES, P.A.	ASSHTO R18 DEBRA P. HICKS, P.F WILLIAM M. HICKS. IN	€./L.S.I. , P.E./P.S.
То:	Environmental Plus Attn: Roger Boone P.O. Box 1558 Euplop NM 88231		Material:	Red Clay	
	Lance, NW 00201		Test Method:	ASTM: D 2922	
Project:	Conoco B4-24				
Date of Test:	December 13, 2005		Depth:	Finished Subgrade	
			Reading Depth:	1'	
Test No.		Location	Dry Density % Maximum	% Moisture	Depth
SG 1	10' E. & 2	25' N. of the SW Corner	100.3	13.2	
SG 2	8' W. & 2	25' S. of the NE Corner	98.4	13.9	

Control Density:	106.0 ASTM: D 698	Optimum Moisture: 18.8%
Required Compa	action: 95%	
Lab No.:	05 11096-11099	PETTIGREW & ASSOCIATES
Copies To:	Enviromental Plus	BY: Delupite

P.E.

ENGLARIA SI SUBILI		LABORATORY TEST F PETTIGREW & ASSOC 1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827	REPORT CIATES, P.A.	ASHTO R18 DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.		
То:	Environmental Plus Attn: Roger Boone P.O. Box 1558		Material:	Red Clay		
	Eunice, NM 88231		Test Method:	ASTM: D 2922		
Project:	Conoco B4-24					
Date of Test:	December 14, 2005		Depth:	3' Below Finished Subgrade		

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		Dry Density		
Test No.	Location	% Maximum	% Moisture	Depth
SG 3	10' E. & 25' S. of the NW Corner	97.3	14.0	
SG 4	20' N. & 12' E. of the SE Corner	98.7	13.2	

Control Density	r: 106.0 ASTM: D 698	Optimum Moisture: 18.8%
Required Comp	action: 95%	
Lab No.:	05 11100-11102	PETTIGREW & ASSOCIATES
Copies To:	Enviromental Plus	BY: Dupt

P.E.

APPENDIX V

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FINAL NMOCD C-141 FORM

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

1

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised March 17, 1999

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

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

	Release Notification and Corrective Action											
	OPERA	<u>FOR</u>				Initial Report	🛛 Fin	al Report				
Name	of Company				Contact							
Addre	oPnillips		-		John Abney Talankana Na							
1410 N	33 I. West County I	Rd. Hobbs NM			505-391-31	28						
Facilit	y Name	0.14-		Cl ad	Facility Ty	pe						
Meyer	B-4 #24	APTESE	025 044	50000	2" Flowline							
Surfac	e Owner			Mineral Ow	- <u></u>		APING					
Millard	i Deck Estate			Minici al Ow	001		30-025-	.044850				
			L	OCATION	OF RELEAS	SE	1RP-8	96				
Unit	Section	Township	Range	Feet from the	North/South	Feet from the East/We	est Count	y: Lea				
Letter	4	T215	R36E	Line		Line	Lat. 1	N 32º 30' 45.8"				
H			<u> </u>			L	Lon.	W 103º 15' 51.0"				
]	NATURE O	F RELEAS	E						
Type of	f Release				Volume of Rel	ease	Volume Re	covered				
Oil and Source	of Release				13 Darrels	of Occurrence	0 barrels Date and H	our of Discovery				
Leaking	g union on 2" stee	l flowline			22 September 2	004 @ 0800 hrs	24 Septemb	24 September 2004 @ 1100 hrs				
Was In	nmediate Notice	Given?			If YES, To Whom?							
				Not Required								
By Wh	om?				When?							
Was a	Watercourse Rea	iched? 🗌 Yes	No No		If YES, Volume Impacting the Watercourse. NA							
If a Wa	atercourse was In	npacted, Describe	Fully.*		I							
Describ 2" steel	be Cause of Probl union began leak	lem and Remedial ing, due to partially	Action Taker plugged flow	1.* line. Upon discov	very, line was shu	it in and repaired.		· · · · · ·				
Descrit	be Area Affected	and Cleanup Actio	n Taken.*									
Spill an	ea of approximate	ly 10' X 59' and 15	' X 26' overs	pray area. The fin	al excavated area	a comprised ~ 2,500 sq.	. ft to a maxin	um depth of 8-ft bgs.				
was iso	lated with a one-fe	ot thick clay barrie	r installed on	the excavation flo	oor. Approximat	$ev 500 vd^3$ of clean so	rm. Residual c il was nurchas	end from the				
landow	ner and utilized as	backfill. Remedial	Goals: TPH =	5,000 mg/Kg, be	enzene = 10 mg/K	I.g., and BTEX = 50 mg	/Kg.					
				1 1	1 4 6 1	1 1 1 1	•	<u></u>				
regulati	y certify that the in	ntormation given ab	ove is true and t and/or file c	d complete to the	ifications and net	form corrective action	that pursuant t s for releases	o NMOCD rules and which may endanger				
public l	health or the envir	onment. The accept	tance of a C-1	41 report by the	NMOCD marked	as "Final Report" does	s not relieve th	e operator of liability				
should	their operations ha	ave failed to adequa	tely investigat	e and remediate	contamination the	at pose a threat to groun	nd water, surfa	ice water, human				
health o	or the environment	t. In addition, NMC	CD acceptan	ce of a C-141 rep	ort does not relie	ve the operator of respo	onsibility for a	compliance with any				
ounerie	deral, state, or loc	ai laws and/or regul	auons.	<u> </u>		II CONSEDVA	TION DI	VISION				
Signati	ure:	Jan Ume	8	· · · · · · · · · · · · · · · · · · ·	⊻	IL CONSERVA		VISION				
		()			ENJ. ROEN	ise (
E-mail	Address: John AD	ney Abney@ConocoPhilli	ps.com	, <u>.</u>	Approved b	y District Supervisor;	K b	l				
Title:	S.H.E.A.R. Specia	list			Approval D	ate: 5.24.06	Expiration	Date:				
Deter		Phone: 505-201 3	2128	· · · · · · · · · · · · · · · · · · ·	Conditions	of Annewel.		Attached				
Date.		1 HOHC. JUJ-371-	/120			a sphiorai:						

* Attach Additional Sheets If Necessary