

OK

District I Lund Farm State Of New Mexico
P.O. Box 1980, Hobbs, NM 11/19/94 Energy, Minerals and Natural Resources Department
District II
P.O. Drawer, Artesia, NM 88211
District III
1000 Rio Brazos Rd. Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco Inc. Telephone: 505-324-5837

Address: 3315 Bloomfield Hwy - Farmington, NM 87401

Facility Or: Ludwick LS 7

Well Name _____

Location: Unit or Qtr/Qtr Sec _____ L _____ Sec _____ 31 T _____ 30N R _____ 10w County _____ San Juan

Pit Type: Separator _____ Dehydrator _____ Other _____ Blow Down Pit _____

Land Type: BLM _____ State _____ Fee _____ X _____ Other _____

Pit Location: (Attach diagram) Pit dimension: length 17' width 20' depth 3'

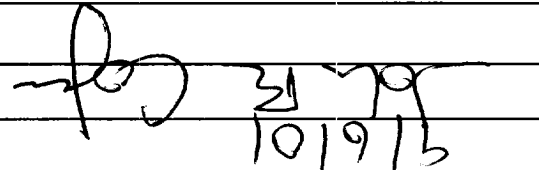
Reference: wellhead X other _____

Footage from reference: 58'

Direction from reference: 65 Degrees X East of X North
_____ West _____ South

Depth To Ground Water: (VERTICAL distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	Total <u>10</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points)	Total <u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) (20 points) 200 feet to 1000 feet (10 points) (10 points) Greater than 1000 feet (0 points) (0 points)	Total <u>10</u>
RANKING SCORE (TOTAL POINTS):		<u>20</u>



Date Remediation Started: 4/16/1999		Date Completed: 4/17/1999	
Remediation Method: Excavation: X		Approx. cubic yards: 53	
(Check all appropriate sections)			
Landfarm: X		Insitu Bioremediation: _____	
Other: _____			
Remediation Location: Onsite		X Offsite	
(ie. landfarmed onsite, name and location of offsite facility)			
General Description Of Remedial Action: Dug pit to 12' and hit bedrock. Pit walls were also in rock bed. Landfarmed contaminated soil and backfilled pit with clean fill material.			
Landfarm sampled on 7/19/00; TPH = 1.1 ppm; Benzene = 0.129 ppm; Total BTEX = 0.852 ppm			
Ground Water Encountered: No _____ Yes _____			
Depth: _____			
Sample location: Center of pit bottom.			
Composite: Center of pit bottom and center of four sides			
Sample depth: 12'			
attach sample results and diagram of sample locations and depths)			
Sample Results			
Benzene (ppm)		18	
Total BTEX (ppm)		585	
Field headspace (ppm)		N/A	
TPH		5	
Ground Water Sample: Yes _____ No _____ (If yes, attach sample results)			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: 9/16/01		PRINTED NAME: John E. Cofer	
SIGNATURE: 		AND TITLE: Environmental Coordinator	

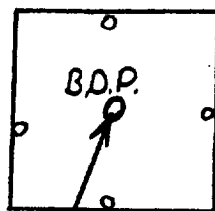
Lease Name: Ludwick LS 7

Operator: R.B.

Date: 3-17-99

Site Security

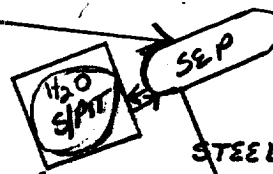
← N arrow



BDP
58' F.W.H.
65° NE.
17' X 20' X 3'
Abandon



o soil sample location



STEEL PIT



Lease Name: Ludwick LS 7

Federal/ Indian Lease No: SF 078194

CA No.: _____

Unit: L

Legal Description: Sec. 31 - T30N - R10W

OFF: (505) 325-5667



LAB: (505) 325-1556

March 26, 1999

Shirley Ebert
Conoco, Inc.
3315 Bloomfield Hwy
Farmington, NM 87401
TEL: (505) 324-5813
FAX (505) 324-5825

RE: Ludwick LS 7 BDP

Order No.: 9903046

Dear Shirley Ebert,

On Site Technologies, LTD. received 2 samples on 3/19/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Aromatic Volatiles by GC/PID (SW8021B)

Diesel Range Organics (SW8015)

Gasoline Range Organics (SW8015)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to be 'David Cox'.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 26-Mar-99

CLIENT: Conoco, Inc.
Project: Ludwick LS 7 BDP
Lab Order: 9903046

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 26-Mar-99

Client:	Conoco, Inc.	Client Sample Info:	Ludwick LS 7 BDP
Work Order:	9903046	Client Sample ID:	Center of Pit
Lab ID:	9903046-01A	Matrix:	SOIL
Project:	Ludwick LS 7 BDP	Collection Date:	3/17/99 1:41:00 PM
		COC Record:	10027

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	4600	25		mg/Kg	1	Analyst: DC 3/23/99
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	2100	450		mg/Kg	2500	Analyst: HR 3/19/99
AROMATIC VOLATILES BY GC/PID		SW8021B				
Benzene	3200	2500		µg/Kg	2500	Analyst: HR 3/22/99
Toluene	110000	5000		µg/Kg	2500	3/22/99
Ethylbenzene	19000	2500		µg/Kg	2500	3/22/99
m,p-Xylene	170000	5000		µg/Kg	2500	3/22/99
o-Xylene	40000	2500		µg/Kg	2500	3/22/99

Qualifiers:	PQL - Practical Quantitation Limit*	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 26-Mar-99

Client:	Conoco, Inc.	Client Sample Info:	Ludwick LS 7 BDP
Work Order:	9903046	Client Sample ID:	4pt Composite
Lab ID:	9903046-02A	Matrix:	SOIL
Project:	Ludwick LS 7 BDP	Collection Date:	3/17/99 1:58:00 PM
		COC Record:	10027

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	760	50		mg/Kg	2	3/23/99
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	4700	450		mg/Kg	2500	3/19/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: HR
Benzene	18000	2500		µg/Kg	2500	3/22/99
Toluene	310000	5000		µg/Kg	2500	3/22/99
Ethylbenzene	25000	2500		µg/Kg	2500	3/22/99
m,p-Xylene	190000	5000		µg/Kg	2500	3/22/99
o-Xylene	42000	2500		µg/Kg	2500	3/22/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

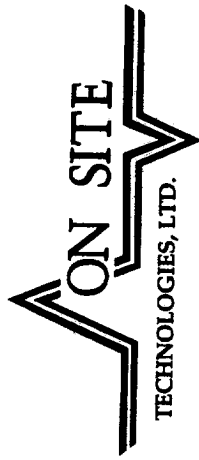
E - Value above quantitation range

Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

10027

Date: 3-18-99

Page: 1 of 1

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Purchase Order No.:		Project No.	
Name: <u>Shirley Elbert</u>		Title:	
Company: <u>Concho Eng.</u>		Company:	
Address: <u>3315 Aboufelm Hwy.</u>		Mailing Address:	
City, State, Zip: <u>Farmington NM 87401</u>		City, State, Zip:	
Telephone No.:		Telefax No.:	
PROJECT LOCATION: <u>Ludwick LS 7</u>		ANALYSIS REQUESTED	
SAMPLER'S SIGNATURE: <u>J. Valdez</u>			
SEND INVOICE TO		RESULTS TO	
SAMPLE IDENTIFICATION		Number of Containers	
DATE	TIME	MATRIX	PRES.
3-17-99	1300	Sol	None
3-17-99	1341	Sol	None
3-17-99	1346	Sol	None
3-17-99	1348	Sol	None
3-17-99	1343	Sol	None
3-17-99	1357	Sol	None
4 pt. Composite		1	
Center of Pit		1	
North wall		1	
East wall		1	
West wall		1	
South wall		1	
4 pt. Composite		1	
Relinquished by: <u>J. Valdez</u>		Received by: <u>Heide Rees</u>	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Method of Shipment:		Rush	
Authorized by: _____		Date: _____	
(Client Signature Must Accompany Request)		Date: _____	

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

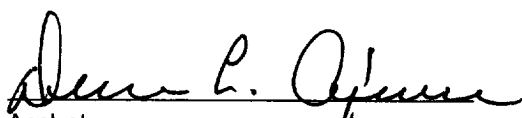
Client:	Conoco, Inc.	Project #:	707003-225
Sample ID:	Landfarm	Date Reported:	07-25-00
Laboratory Number:	H814	Date Sampled:	07-19-00
Chain of Custody No:	7976	Date Received:	07-24-00
Sample Matrix:	Soil	Date Extracted:	07-25-00
Preservative:	Cool	Date Analyzed:	07-25-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

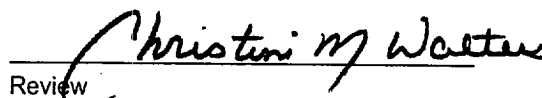
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.9	0.2
Diesel Range (C10 - C28)	0.2	0.1
Total Petroleum Hydrocarbons	1.1	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Ludwick LS 7.


Analyst


Review

ENVIROTECH LABS

ENVIRONMENTAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Conoco, Inc.	Project #:	707003-225
Sample ID:	Landfarm	Date Reported:	07-25-00
Laboratory Number:	H814	Date Sampled:	07-19-00
Chain of Custody:	7976	Date Received:	07-24-00
Sample Matrix:	Soil	Date Analyzed:	07-25-00
Preservative:	Cool	Date Extracted:	07-25-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	129	1.8
Toluene	141	1.7
Ethylbenzene	116	1.5
p,m-Xylene	358	2.2
o-Xylene	108	1.0
Total BTEX	852	

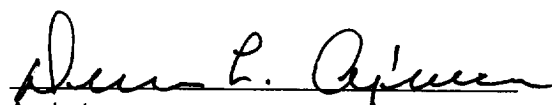
ND - Parameter not detected at the stated detection limit.

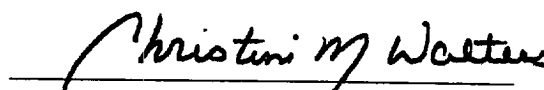
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Ludwick LS 7.


Analyst


Review

7976

ENVIROTECH INC.

5796 U.S. Highway 64

Farmington, New Mexico 87401

(505) 632-0615

Sample Receipt			
	Y	N	N/A

Received Intact

Cool - Ice/Blue Ice