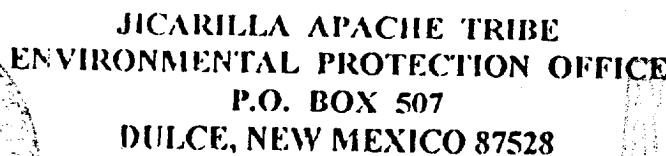


OK -



SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

PI REMEDIATION AND CLOSURE REPORT

APPROVED

Land Type:

Direction from reference: _____ Degrees _____ East North _____
 _____ West South _____

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/15/98 Date Completed: 9/15/98

Remediation Method: Excavation X Approx. cubic yards 600 CY

(Check all appropriate sections)

Landfarmed X

In situ Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: REMOVED CONTAMINATED SOIL USING EXCAVATOR, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom - CENTER 4 Banks N, S, E, W

Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 26'

Sample date 9/15/98

Sample time 11:00 A

GAS ND PPM

DIE ND PPM

METHOD: BOISM

PI0 = 2.6 PPM

Sample Results

Soil: Benzene (ppm) N/A

Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A

Toluene (ppb) N/A

Field Headspace (ppm) 4.3

Ethylbenzene (ppb) N/A

TPH BOISM (ppm) GAS ND PPM Total Xylenes (ppb) N/A
DIE ND PPM

Groundwater Sample: Yes _____ No X (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 12/2/98 PRINTED NAME SHAWN ADAMS

SIGNATURE Shawn Adams AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Ken C. Mc... DATE: 12-7-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #15
Work Order:	9809043	Client Sample ID:	MW#15-200; Pit Floor
Lab ID:	9809043-01A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/15/98 11:00:00 AM
		COC Record:	5213

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 9/24/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: HR 9/19/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #15
Work Order:	9809043	Client Sample ID:	MW#15-201; 4 Wall Comp
Lab ID:	9809043-02A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/15/98 11:05:00 AM
		COC Record:	5213

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/24/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/19/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY REPORTING INFORMATION

1 of 1

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Client Name: Elm Ridge

Site Name: Martin Whitaker #15

Date: 9/15/98

NE 1/4, NW 1/4, SEC. 8, T 23N, R 4 W.

Time Started: 02:30

Time Finished: _____

Pit starting size: 20x20x5

Pit size when finished: 25x25x26

Land farm size: _____

Distance to wash > or < 100': _____

Distance to lake or pond: _____

Distance to private or domestic water source > or < 1000': _____

P.I.D. Readings

North wall: 2.2

South wall: 1.1

East wall: 3.4

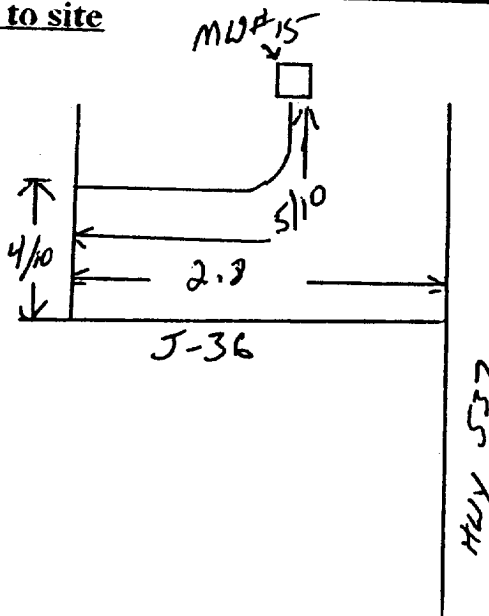
West wall: 2.1

Land farm: _____

Equipment used: Excavator, Loader, PSD1, Picl, James Kirby Linn Wilson

Remarks: Two samples to Lab MW#15-200 P.T Floor 4.5 PPM
MW#15-201 4/1000 comp 2.6 PPM.
Equipment on three sides of P.T

Map to site



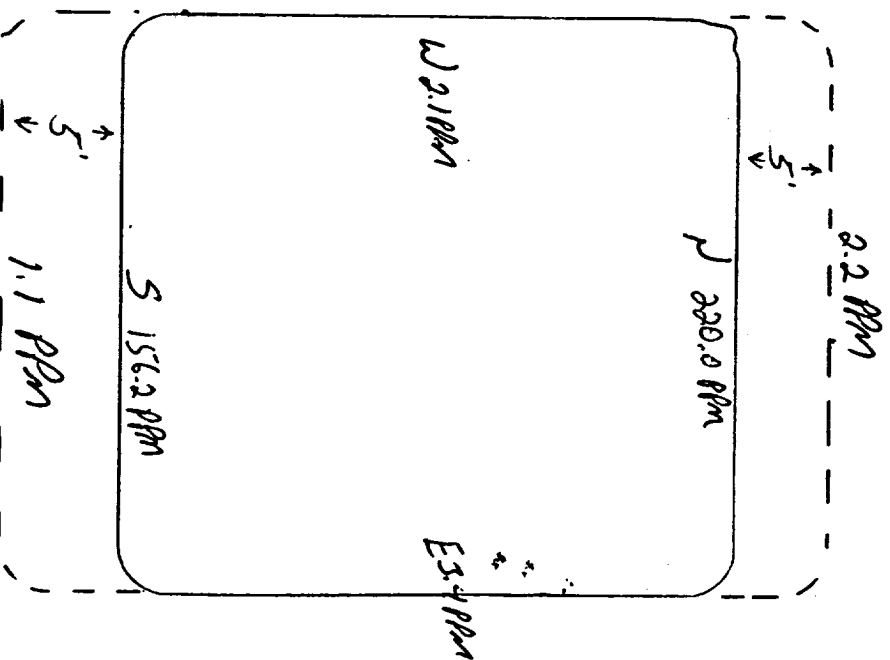
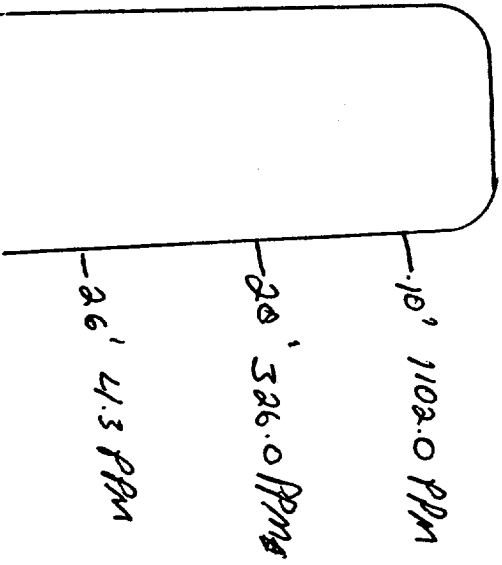
Site Diagram on back side

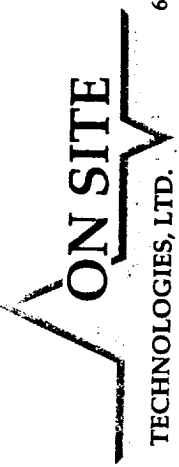
Site Diagram

Site Name: Mt. 17 Abitator #15

Sample No.	Description	PID (PPM)
MU#15-200	Pit Floor	4.3 PPM
MU#15-201	1" wall comp	2.6 PPM

Vert
Sample





657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

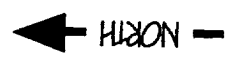
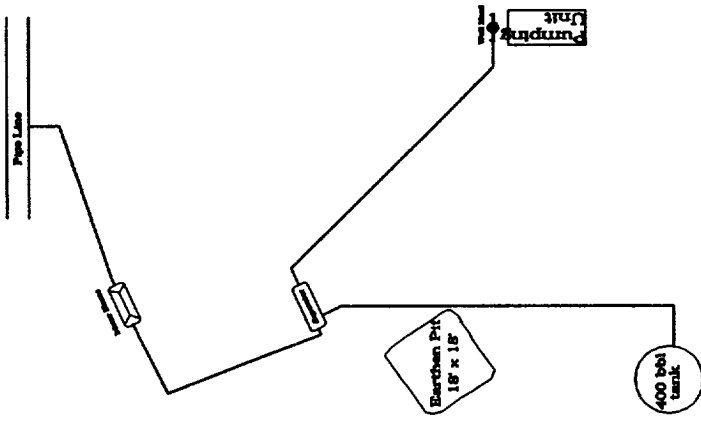
5214

Date: 9-15-98

Page 1 of 1

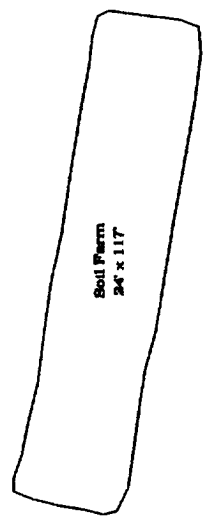
Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Shawn Adams		Company			
		Contract inv.		Mailing Address			
				City, State, Zip			
		City, State, Zip		Telephone No.		Telefax No.	
Sampling Location: NW 1/4 4th St & 15th NW, NW 1/4 10th				ANALYSIS REQUESTED			
SAMPLER: JIK				RESULTS TO			
ILLIGIBLE				Number of Containers			
SAMPLE IDENTIFICATION				LAB ID			
DATE				TIME			
DATE				PRES.			
MW 15-200 Pit Floor				4.3			
MW 15-201 1/2 wall Comp				2.6			
MW 15-202 Pit Floor				2.2			
MW 15-203 1/2 wall Comp				1.9			
MW 15-204 Pit Floor				1.6			
MW 15-205 1/2 wall Comp				1.3			
MW 15-206 Pit Floor				1.9			
MW 15-207 1/2 wall Comp				1.0			
MW 15-208 Pit Floor				3.4			
MW 15-209 1/2 wall Comp				8.8			
Relinquished by:				Date/Time: 9/17/98			
Relinquished by:				Date/Time:			
Relinquished by:				Date/Time:			
Method of Shipment:				10 Working Days			
Authorized by: Shawn Adams				Date: 7/17/98			
(Client Signature Must Accompany Request)				Special Instructions:			

White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client



LEGEND:

_____	OIL
_____	WATER
_____	GAS
_____	Oil/Water
_____	Gas/Oil/Water



Contract Environmental Services, Inc.
505-325-1198
Farmington, New Mexico

Field Data Recorded: _____ Date: _____ Reviewed: _____ Date: _____ Drawn: _____ Date: _____	Elm Ridge Resources Martin Whittaker #15 NE/NW Sec. 8, T29N, R4W Rio Arriba County, New Mexico	Contract Environmental Services, Inc. 505-325-1198 Farmington, New Mexico
---	---	---

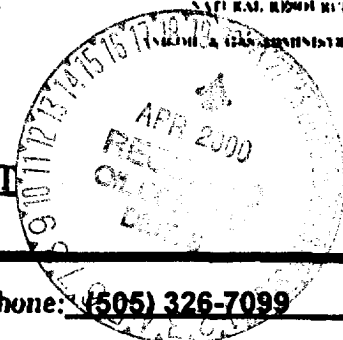
JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT COPY TO

NAT. ENV. MON. RPT. DEPT.

STATE & LOCAL AGENCIES

ON-SITE SOIL REMEDIATION REPORT



Operator: Elm Ridge Resources Telephone: (505) 326-7099

Address: 312 W La Plata, Farmington NM 87401

Facility or Well Name: Martin Whittaker #15

Location: Unit or Qtr/Qtr Sec NE/NE Sec 08 T23N R4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 9-15-98 Date Completed: 8-17-99

Remediation Method: Landfarmed X Approx. cubic yards 600

Composted

Other

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 8-17-99 Time 1300

Sample Results:

Field Headspace (ppm) 10.1

TPH (ppm) ORD 34 Method 8015

Other GRO 0

RANKING SCORE (TOTAL POINTS): 0

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9-23-99 PRINTED NAME Bill Schaaphok

SIGNATURE Bill Schaaphok AND TITLE Environmental Specialist

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES NO (REASON)

SIGNED: DATE:

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Aug-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Landfarm
Work Order:	9908041	Client Sample ID:	MW #15 LF 1-3
Lab ID:	9908041-03A	Matrix:	SOIL
Project:	Elm Ridge Resources Landfarms	Collection Date:	08/17/1999 1:00:00 PM
		COC Record:	10248

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	34	25		mg/Kg	1	08/19/1999
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	08/18/1999

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Location : Martin Whittaker # 15

Quad : NE/NW Section : 08

Township: 23 N Range: 4 W

Pit: Separator

Reference: 90' S 40' W

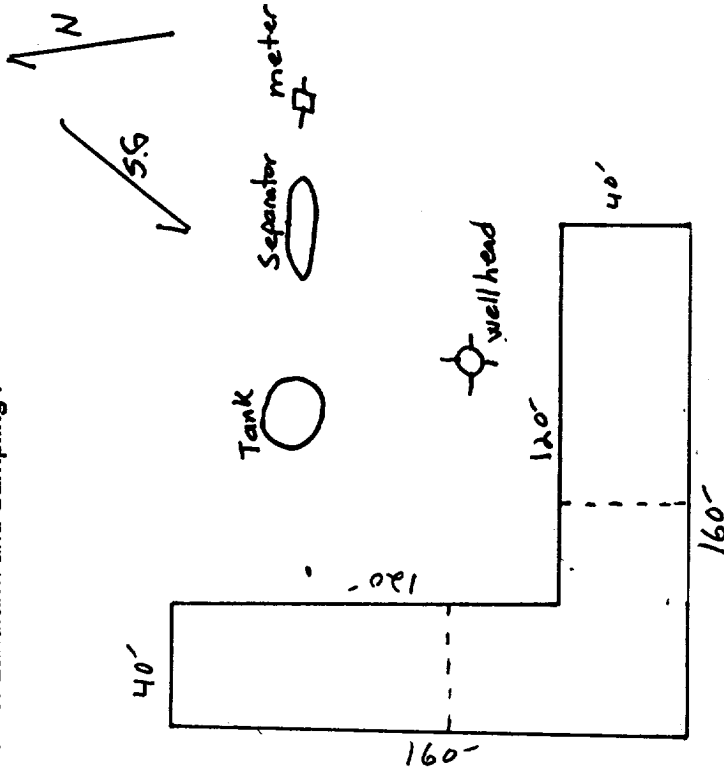
Size:

Yds: 600

3-5 - Point Composite

Sample #	Location	OVM
1	LF 1-1	2.3
2	LF 1-2	4.7
3	LF 1-3	10.1
4		
5		
6		
7		
8		
9		
10		
11		
12		

Overview of Landfarm and Sampling :



Comments : Sandy loam, some grey clay, damp, some scattered staining on odor.
samples taken at 8" to 12"

Environmental Specialist :