

OK

SUBMIT COPY TO
NATURAL RESOURCE DEPT
OIL & GAS ADMINISTRATION

APPROVED

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 9/2/98 Date Completed: 9/2/98

Remediation Method: Excavation X Approx. cubic yards 300

(Check all appropriate sections) Landfarmed X Insitu 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 SOIL IN SOIL FARM ON LOCATION

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 20' GAS ND PPM
Sample date 9/2/98 Sample time 1:40 PM DIE 180 PPM
METHOD 8015M

Sample Results

Soil: Benzene (ppm)	<u>N/A</u>	Water: Benzene (ppb)	<u>N/A</u>
Total BTEX (ppm)	<u>N/A</u>	Toluene (ppb)	<u>N/A</u>
Field Headspace (ppm)	<u>10.2</u>	Ethylbenzene (ppb)	<u>N/A</u>
TPH <u>8015M</u> (ppm)	<u>GAS ND PPM</u>	Total Xylenes (ppb)	<u>N/A</u>
	<u>DIE ND PPM</u>		

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 11/24/98 PRINTED NAME SHAWN ADAMS
SIGNATURE [Signature] 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: [Signature] DATE: 11-25-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Sep-98

Client: Contract Environmental Services, Inc.

Client Sample Info: Martin Whittaker #22 #1

Work Order: 9809008

Client Sample ID: MW22#1-302

Lab ID: 9809008-07A Matrix: SOIL

Collection Date: 9/2/98 1:40:00 PM

Project: Martin Whittaker

COC Record: 4388

P. 1 Floor

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/14/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/13/98

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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1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Wittaker #22 #1
Work Order:	9809008	Client Sample ID:	MW22#1-303
Lab ID:	9809008-08A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/2/98 1:45:00 PM
		COC Record:	4388

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	180	25		mg/Kg	1	Analyst: HR 9/14/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: HR 9/13/98

Qualifiers:

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

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CONTRACT ENVIRONMENTAL

Daily Site Sheet

Client Name: Elm Ridge Resources

Site Name: MARTIN WH. HAZEL No 22

NE 1/4, SW 1/4, SEC. 7, T 23 N, R 4 W.

Date: 9-2-98

Time Started: 8:00

Time Finished: _____

Pit starting size: 10X10X4 P.T.#2 Pit size when finished: 20X20X15 P.T.#2

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: P.T.#2 3.8 PPM

South wall: 6.8 PPM

East wall: 1.8 PPM

West wall: 3.4 PPM

Land farm: _____

Equipment used: P.S.D. P.I.D. EXCAVATOR LINE LOCATOR Jim Kirby Linda Wilson

Remarks: Took Two Samples on MW 22 #2 To Lab 402 JAR MW 22 #2-300

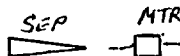
P.T. Floor 4.7 PPM 402 JAR MW 22 #2-301 4 wall Comp 6.8 PPM

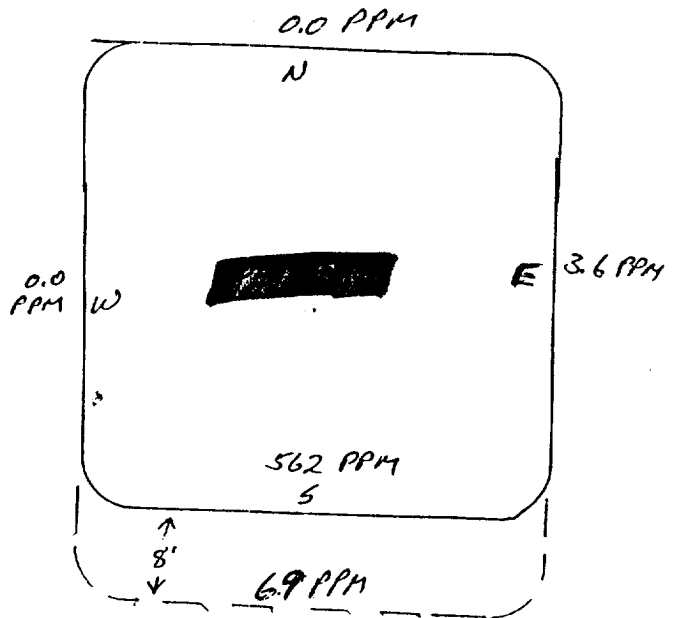
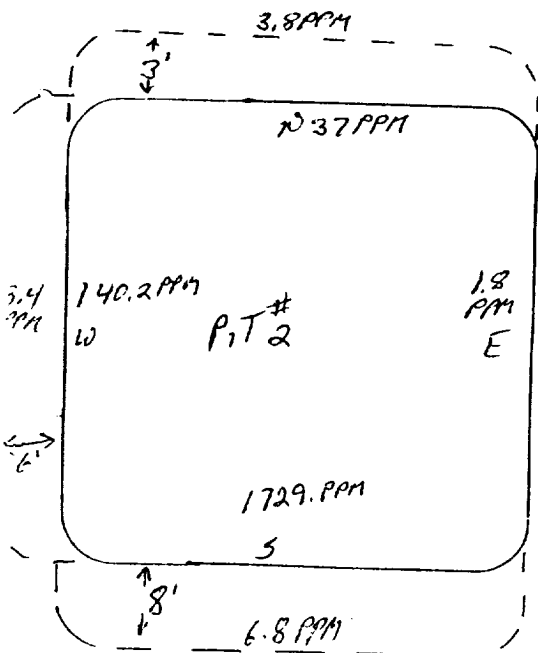
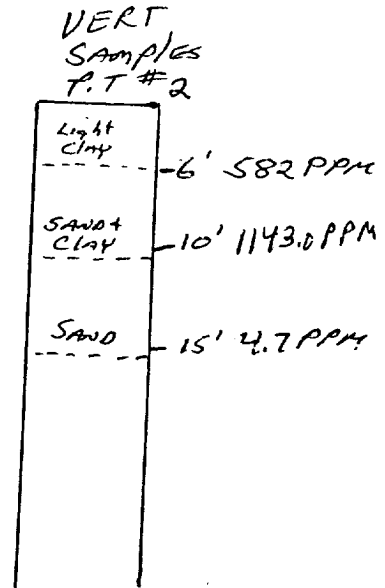
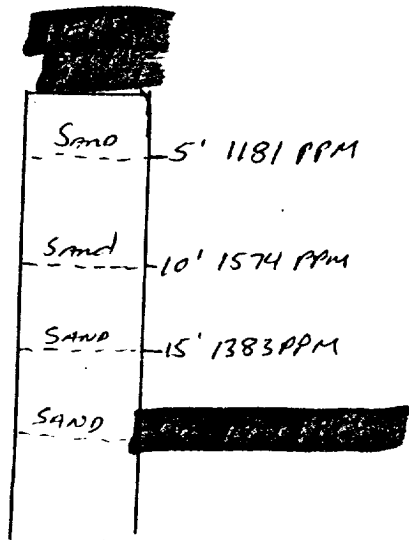
P.T. #2 is BETWEEN TANK + SEP. Tank Sample 4.7 PPM

4 wall sample 6.8 PPM

Site Diagram

Sample No.	Description	PID (PPM)
1) MW 22 #2-300	P.T. Floor	4.7 PPM
2) MW 22 #2-301	4 wall Comp	6.8 PPM





ON SITE

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

Date: 9/1/21

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Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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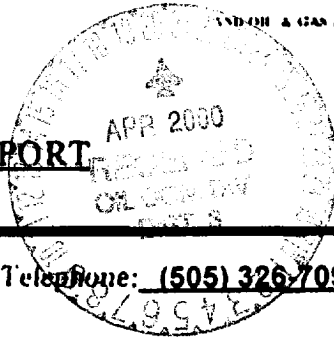


Contract Environmental Services, Inc.
505-325-1198
Farmington, New Mexico

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

SUBMIT COPY TO:
NATURAL RESOURCES DEPT.
EPA & GAS ADMINISTRATION

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 #22 Pit #1

Location: Unit or Qtr/Qtr Sec NE/SW Sec 07 T 23N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 9-2-98 Date Completed: 8-13-99

Remediation Method: Landfirmed X Approx. cubic yards 347

Composted

Other

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa, or Watering Pond (pts.) 10

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 8-13-99 Time: 1002

Sample Results:

Field Headspace (ppm) 3.4
GR0 ND

TPH (ppm) 29 Method 8015

Other

RANKING SCORE (TOTAL POINTS): 10

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: 20-Aug-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Resources
Work Order:	9908038	Client Sample ID:	MW #22 Landfarm 1-2
Lab ID:	9908038-03A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	08/13/1999
		COC Record:	10247

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	29	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:

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- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

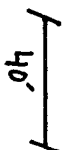
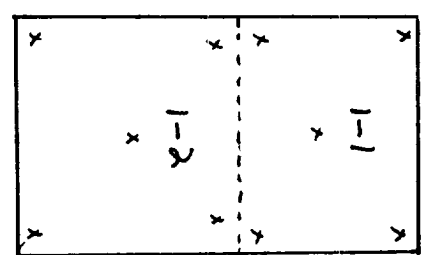
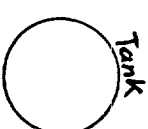
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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Client : Elm Ridge Resources

Date Started : 9-2 1998 Date Completed : 8-13 1999

Location: <u>Martin Lighthouse #22 Pit #1</u>			Overview of Landfarm and Sampling:																																									
Quad: <u>NE15W</u> Section: <u>07</u>																																												
Township: <u>23N</u> Range: <u>4W</u>																																												
Pit: <u>Separator</u>																																												
Reference: <u>87' N 70° W</u>																																												
Size: <u>125' x 75' x 1'</u>																																												
Yds: <u>347</u>																																												
2-5 - Point Composite																																												
<table border="1"><thead><tr><th>Sample #</th><th>Location</th><th>OMI</th></tr></thead><tbody><tr><td>1</td><td>1-1</td><td>2.3</td></tr><tr><td>2</td><td>1-2</td><td>3.4</td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></td></tr><tr><td>6</td><td></td><td></td></tr><tr><td>7</td><td></td><td></td></tr><tr><td>8</td><td></td><td></td></tr><tr><td>9</td><td></td><td></td></tr><tr><td>10</td><td></td><td></td></tr><tr><td>11</td><td></td><td></td></tr><tr><td>12</td><td></td><td></td></tr></tbody></table>			Sample #	Location	OMI	1	1-1	2.3	2	1-2	3.4	3			4			5			6			7			8			9			10			11			12					
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Comments: <u>Slight brown, sandy loamy soil as a starting, sample depth 8" to 12"</u>																																												
Environmental Specialist:																																												