

OK - say "hey"
later

NATURE RESERVE REF ID:

AND OIL & GAS ADMINISTRATION

APPROVED

100 feet to 1000 feet	(10 points)	0
Greater than 1000 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: 9/12/97 Date Completed: 4/21/98

Remediation Method: Excavation X (Check all appropriate sections)
Approx. cubic yards 373
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, 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) TPH by EPA 418.1
Sample depth 22' DEEP 71 (PPM)
Sample date 4/21/98 Sample time 11:43 AM P10 4.1 (PPM)

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>17.3</u>	Ethylbenzene (ppb)	<u>N/A</u>
TPH <u>8015 M (ppm)</u>	<u>N/A</u>	Total Xylenes (ppb)	<u>N/A</u>
	<u>260 DIE (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 5/1/98 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) Spray with liquid fertilizer and close 4/27/98

SIGNED: Karena L. Callado DATE: May 21, 1998

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-May-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jic. Apache "F" Well 6 DH
Work Order:	9805005	Client Sample ID:	JAF6DH-104; Floor
Lab ID:	9805005-04A	Matrix:	SOIL
Project:	Jicarilla Apache	Collection Date:	4/21/98 11:43:00 AM
		COC Record:	6931

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	260	50		mg/Kg	1	5/6/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	5/5/98

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

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Shawn Adams*
Company: *Contract Environmental Services, Inc.*
Address: *P.O. Box 3376*
City, State: *Farmington, NM 87499*

Date: *15-Sep-97*
COC No.: *6460*
Sample No.: *16175*
Job No.: *2-1000*

Project Name: *Jicarilla Apache "F" Well #6 Sep. Pit*
Project Location: *JAF6-100; 4 Bank Composite @ 7'*
Sampled by: *DGM* Date: *12-Sep-97* Time: *13:30*
Analyzed by: *HR* Date: *15-Sep-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	<i>71</i>	<i>25</i>	<i>mg/kg</i>	<i>EPA Method 418.1</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>ND</i>	<i>ND</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>896</i>	<i>800-1200</i>	<i>mg/kg</i>

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16166-4320</i>	<i>< 2XLOQ</i>	<i>15.0</i>

Approved by: *[Signature]*
Date: *9/15/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CONTRACT ENVIRONMENTAL

DATE 4/21/98 TIME STARTED 11:30 TIME FINISHED 12:00

SITE NAME Jicarilla Apache "F" well 6 DH

PIT SIZE AT START x x PIT SIZE WHEN FINISHED x x

P.I.D. READINGS

NORTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

SOUTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

EAST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

WEST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

WALL COMPOSITE #1 4.1 #2 _____ #3 _____ FINALE TIME 11:40

FLOOR #1 12.3 #2 _____ #3 _____ FINALE TIME 11:43

LAND FARM 9.6 SAMPLE TIME 11:47

SPOIL PILE _____ SAMPLE TIME _____

REMARKS: _____

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

SECRET COPY
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: (505) 326-7099

Address: 312 West LA PLATA STREET, FARMINGTON, NM 87401

Facility or Well Name: JICARILLA APACHE "F" WELL #6 (DH) LANDFARM

Location: Unit or Qtr/Qtr Sec D Sec 22 T 25N R 5W County RIO ARriba

Land Type: _____

Date Remediation Started: 9/12/97

Date Completed: 4/21/98

Remediation Method: Landfilled X

Approx. cubic yards 373

Composted _____

Other _____

Depth To Groundwater: (pts.) 10

Distance to an Ephemeral Stream (pts.) 0

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

Wellhead Protection Area: (pts.) 20

Distance To Surface Water: (pts.) 0

RANKING SCORE (TOTAL POINTS): 30

Final Closure Sampling:

Sampling Date: 4/21/98 Time: 11:47

Sample Results:

Field Headspace (ppm) 9.6 ppm

TPH (ppm) Gas - ND Method 8015M
DIE - 77 ppm

Other _____

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

DATE 12/22/98 PRINTED NAME SHAWN ADAMS

SIGNATURE Shawn Adams AND TITLE ENV CONSULTANT

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

APPROVED: YES X NO _____ (REASON) may be used as backfill if needed.

SIGNED: Karena L. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-May-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jic. Apache "F" Well 6 DH
Work Order:	9805005	Client Sample ID:	JAF6DH-105; Landfarm
Lab ID:	9805005-05A	Matrix:	SOIL
Project:	Jicarilla Apache	Collection Date:	4/21/98 11:47:00 AM
		COC Record:	6931

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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T/R Hydrocarbons: C10-C28	77	50		mg/Kg	1	5/6/98
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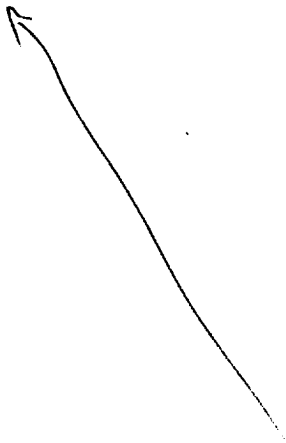
1 of 1

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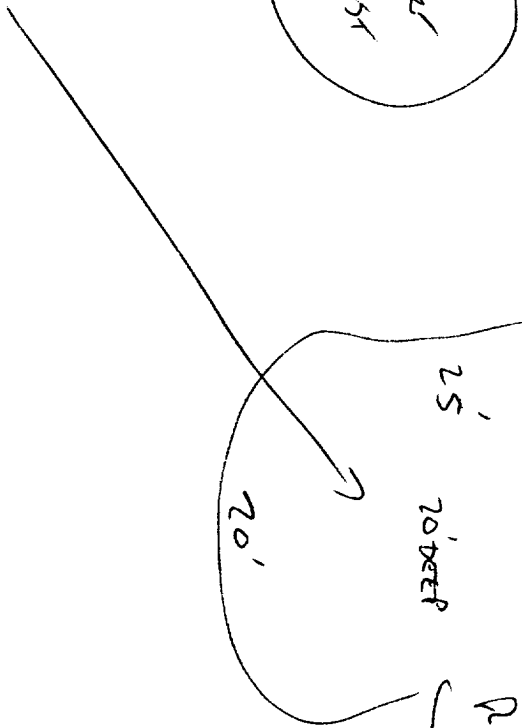
- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT



Water



1000



Self

Fiber
Asst

Steel
Pile



4

Soil form

Stack
Piles

CHAIN OF CUSTODY RECORD

6931

ON SITE

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

Date: 4/21/98

Page 1 of 1

Purchase Order No.:		Job No.		Name		Title	
Name: <u>Shawn Adams</u>		Company: <u>Contract Envi.</u>		City, State, Zip: <u>SA 87401</u>		Telephone No. <u>325-1198</u>	
Address: <u>PO Box 3776</u>		Dept.:		City, State, Zip: <u>SA 87401</u>		Telefax No.	
City, State, Zip: <u>Farmington NM. 87499</u>		Sampling Location: <u>J. Apache "F" well 11</u>		City, State, Zip: <u>SA 87401</u>		ANALYSIS REQUESTED	
Sample: <u>James K. Kinky</u>		Number of Containers		RESULTS TO		LAB ID	
SAMPLE IDENTIFICATION		SAMPLE DATE		MATRIX		PRES.	
JF11 100 Well		4/21/98 10:52		Soil		W/A	
JF11 101 Floor		4/21/98 10:57		Soil		W/A	
JF11 102 Land Farm		4/21/98 10:54		Soil		W/A	
JAFE DH 103 Well		4/21/98 11:40		Soil		W/A	
JAFE DH 104 Floor		4/21/98 11:43		Soil		W/A	
JAFE DH 105 Land Farm		4/21/98 11:47		Soil		W/A	
JAFE Com 107 Well		4/21/98 12:12		Soil		W/A	
JAFE Com 108 Floor		4/21/98 12:20		Soil		W/A	
JAFE Com 109 Land Farm		4/21/98 12:22		Soil		W/A	
JAC2 110 Well		4/21/98 12:17		Soil		W/A	
JAFE DH 111 Floor		4/21/98 12:24		Soil		W/A	
JAC2 112 Land Farm		4/21/98 13:32		Soil		W/A	
Relinquished by: <u>Shawn Adams</u>		Date/Time: <u>4/21/98 10:30</u>		Received by: <u>Dee</u>		Date/Time: <u>5/4/98 10:30</u>	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Authorized by: <u>SA 5/4</u>		Date: <u>5/4</u>		Special Instructions:			

Continued Client

ON SITE
TECHNOLOGIES, LTD.

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