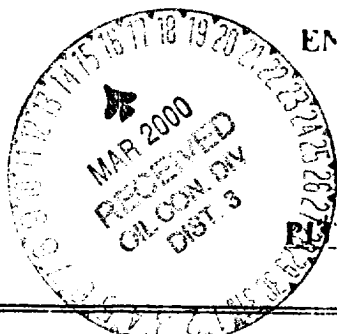


SUBMIT COPY
 NATURAL RESOURCES
 AND OIL & GAS ADMINISTRATION



APPROVED

RANKING SCORE (TOTAL POINTS): _____

Date Remediation Started: 9/19/97 Date Completed: 9/22/97

Remediation Method: Excavation ☒ (Check all appropriate sections) Landfarming ☒ Insitu Bioremediation ☐

Other ☐ Remediation Location: Onsite ☒ Offsite ☐
(i.e. landfarming onsite, name and location of offsite facility)

General Description of Remedial Action: removed contaminated soil and placed in an on-site landfarm

Groundwater Encountered: No ☒ 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 = ND ppm
Sample depth 11' EPA 418.1
Sample date 9/22/97 Sample time 1030 PID = 20 ppm

Sample Results

Soil: Benzene (ppm)	<u>ND</u>	Water: Benzene (ppb)	<u>N/A</u>
Total BTEX (ppm)	<u>0.004</u>	Toluene (ppb)	<u>N/A</u>
Field Headspace (ppm)	<u>8</u>	Ethylbenzene (ppb)	<u>N/A</u>
TPH (ppm)	<u>ND</u>	Total Xylenes (ppb)	<u>N/A</u>

Groundwater 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 6/15/98 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 ☒ NO ☐ (REASON)

SIGNED: [Signature] DATE: 6-15-98

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: **6-Oct-97**
COC No.: **6497**
Sample No.: **16287**
Job No.: **2-1000**

Project Name: **Jicarilla Apache 'I' #2**
Project Location: **JAI2-100; Sep. Pit Bottom**
Sampled by: **DGM** Date: **22-Sep-97** Time: **10:30**
Analyzed by: **HR** Date: **29-Sep-97**
Sample Matrix: **Soil**

Laboratory Analysis

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

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSSI	904	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16287-6497	< LOQ	15.0

Approved by: 
Date: **10/6/97**

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: **6-Oct-97**
COC No.: **6497**
Sample No.: **16287**
Job No.: **2-1000**

Project Name: **Jicarilla Apache 'I' #2**
Project Location: **JAI2-100; Sep. Pit Bottom**
Sampled by: **DGM**
Analyzed by: **DC**
Sample Matrix: **Soil**

Date: **22-Sep-97** Time: **10:30**
Date: **2-Oct-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	2	ug/kg
<i>Toluene</i>	2	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	2	ug/kg
<i>o-Xylene</i>	2	ug/kg	2	ug/kg
<i>TOTAL</i>		4	ug/kg	

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: **10/6/97**

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: **7-Oct-97**
COC No.: **6491**
Sample No.: **16277**
Job No.: **2-1000**

Project Name: **Jicarilla Apache 'I' #2**
Project Location: **JAI2-100; Sep Pit, 4 Bank Comp**
Sampled by: **DGM** Date: **19-Sep-97** Time: **13:00**
Analyzed by: **HR** Date: **23-Sep-97**
Sample Matrix: **Soil**

Laboratory Analysis

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

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	894	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16277-6491	<LOQ	15.0

Approved by: 
Date: **10/7/97**

7649

Page 1 of 1

[illegible]

ON SITE

CHAIN OF CUSTODY RECORD

6491

TECHNOLOGIES, LTD.

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

Date: 9/19/97

Page 1 of 1

Purchase Order No.:		Job No.:	
Name: Shawn Adams		Title:	
Company: CES Inc.		Company: SAME	
Address: PO Box 3376		Mailing Address: SAME	
City, State, Zip: Farmington, NM		City, State, Zip: 505325-1198	
Telephone No.:		Telefax No.:	
Sampling Location: Tierra Apache F# 6 & I#2		ANALYSIS REQUESTED	
Sampler: DGM		Number of Containers	
SAMPLE IDENTIFICATION		LAB ID	
DATE/TIME		DATE/TIME	
MATRIX		PRES.	
JA I-2-100-SEP 17 4 Bk Comp 9/17/97 1300 Soil Nore 1		✓	
JAF 6-100-Comp Pt 3 Trench Comp 9/18/97 1300 Soil Nore 1		✓	
Relinquished by: [Signature]		Received by: [Signature]	
Date/Time: 9/17/97 1630		Date/Time: 9/17/97 1630	
Relinquished by: [Signature]		Received by: [Signature]	
Date/Time: 9/17/97 1630		Date/Time: 9/17/97 1630	
Relinquished by: [Signature]		Received by: [Signature]	
Date/Time: 9/17/97 1630		Date/Time: 9/17/97 1630	
Method of Shipment: Rush		24-48 Hours	
Authorized by: [Signature]		10 Working Days	
(Client Signature Must Accompany Request)		Special Instructions:	

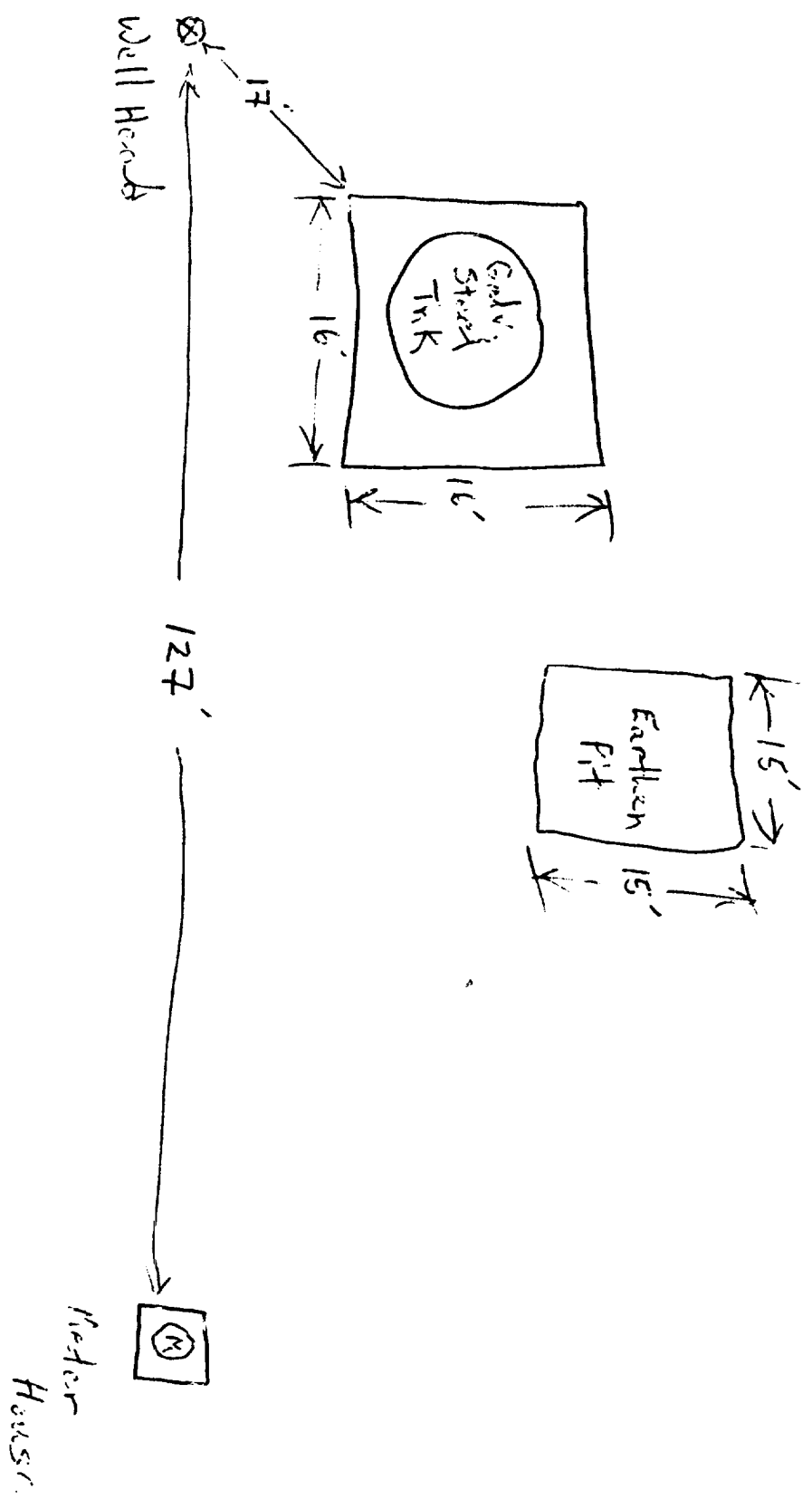
Elon Ridge
TAI #2
cap pit
1/22/97

- arrived on-site $\approx$ 1000
- calibrated PID meter

<u>b No</u>	<u>Sample No</u>	<u>Location</u>	<u>Depth</u>	<u>Core</u>	<u>Remarks</u>
2I2-100	1	mid pit center bottom	11'	8	

- set up & banded soil form
- pit is 50' from the well head @
120° East of North
- permes dug out pit
- left site @ $\approx$ 1100

211' A189
5A1I, #2
Site Diagram
9/22/97



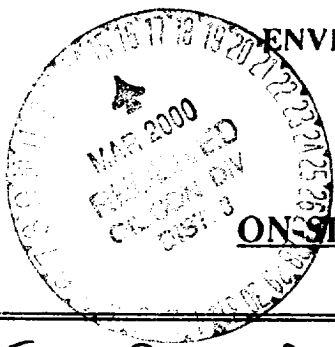
Elm Ridge
 A I 2
 Pit
 4/19/97

- took down fence
- pit is 15X15 x 2' deep
- pit appears clean and looks like a flower bed full of wild flowers; if my dog died I would bury him here

	Sample No.	Location	Depth	Conc	Remarks
	1	mid-pit	3	64	brown
	2	mid-pit	6	775	"
	3	mid-pit	8	1599	"
	4	" "	10	470	
- Bark comp. SI 2-100	5	N Bk middle	7	11	
	6	S " "	"	17	
	7	E " "	"	6	
	8	W " "	"	10	

- left site = 1335 to take operator to his truck

1
 2



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

SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

APPROVED

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

Address: 312 W. La Plata Street, Farmington, NM 87401

Facility or Well Name: JICARILLA APACHE "I" WELL 2

Location: Unit or Qtr/Qtr Sec I Sec 2 T 23N R 3W County RIO ARriba

Land Type: _____

Date Remediation Started: 9/19/97

Date Completed: 6/16/98

Remediation Method: Landfarmed X

Approx. cubic yards 110

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

RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:

Sampling Date: 6/16/98 Time: 12:00

Sample Results:

Field Headspace (ppm) 5.0
TPH GAS (ppm) NA (ppm) Method BOISM
Other DIE 48 (ppm)

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

DATE 7/1/98 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) WAC as Backfill

SIGNED: K. C. Mamm DATE: 7-27-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jun-98

Client: Contract Environmental Services, Inc.
Work Order: 9806075
Lab ID: 9806075-05A **Matrix:** SOIL
Project: Pit Remediation

Client Sample Info: Jicarilla Apache "I" #2
Client Sample ID: JAI2-504; Soil Farm Comp.
Collection Date: 6/16/98 12:00:00 PM
COC Record: 6988

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	48	25		mg/Kg	1	Analyst: HR 6/27/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: DC 6/23/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

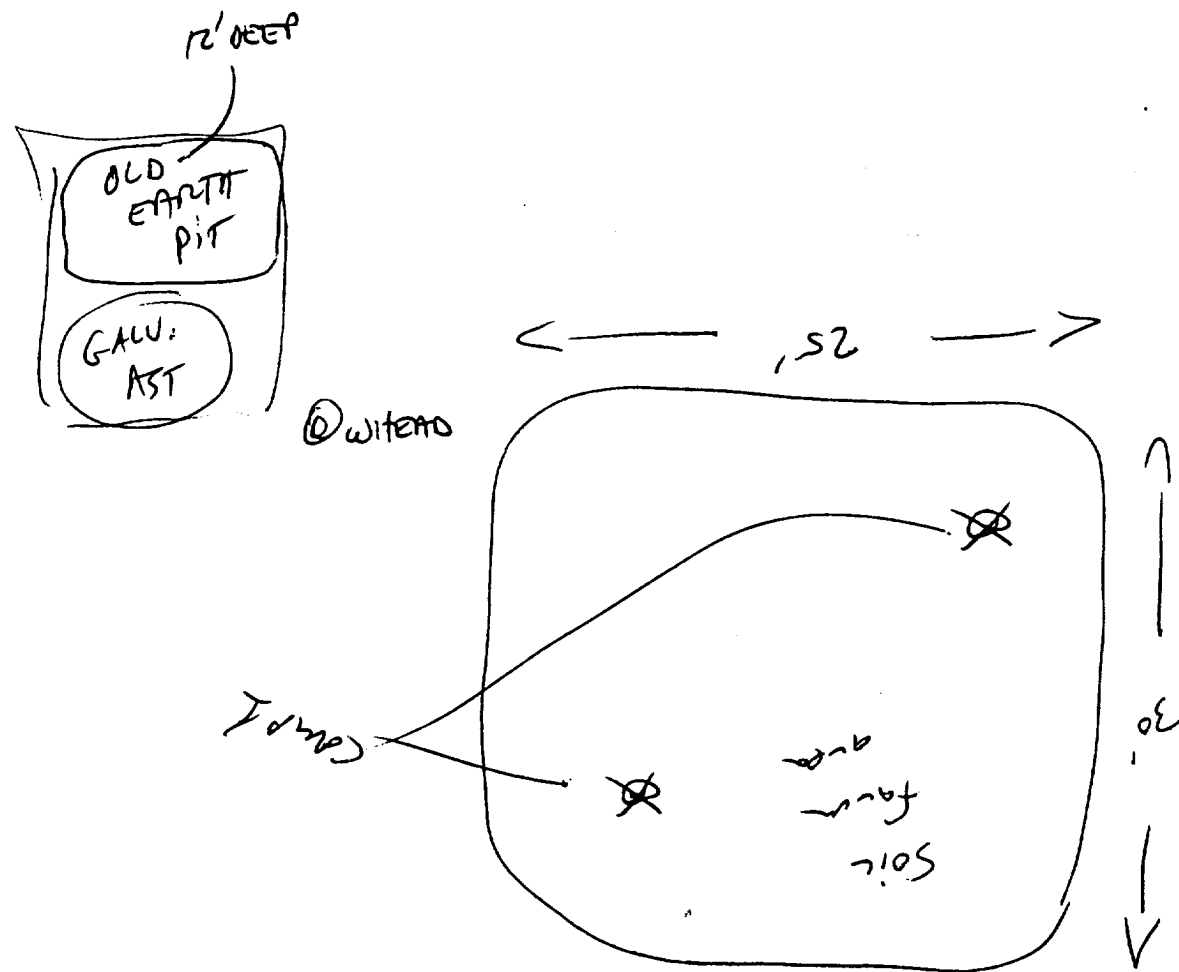
Date: 6/10/98
Page 1 of 1

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

Purchase Order No.:		Job No.		Name		Title																																													
SEND INVOICE TO		Company		Company																																															
		Address		Mailing Address																																															
		City, State, Zip		City, State, Zip																																															
		Telephone No.		Telephone No.		Telefax No.																																													
Sampling Location:				ANALYSIS REQUESTED																																															
SAMPLER: <u>LADAMS</u>				<table border="1"> <tr> <td>Unid. Glass</td> <td>EPA BOWS</td> <td>LAB ID</td> </tr> <tr> <td>7-501</td> <td>75</td> <td>711135-01A</td> </tr> <tr> <td>7-502</td> <td>5</td> <td>-021</td> </tr> <tr> <td>7-503</td> <td>131</td> <td>-021</td> </tr> <tr> <td>7-504</td> <td>89</td> <td>-021</td> </tr> <tr> <td>7-505</td> <td>5</td> <td>-051</td> </tr> </table>				Unid. Glass	EPA BOWS	LAB ID	7-501	75	711135-01A	7-502	5	-021	7-503	131	-021	7-504	89	-021	7-505	5	-051																										
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Authorized by: <u>[Signature]</u>				<table border="1"> <tr> <td>Rush</td> <td>24-48 Hours</td> <td>10 Working Days</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>				Rush	24-48 Hours	10 Working Days																																									
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ECM-2
 J.A. I#2
 Sec 2 T23N R3W
 Rio Arriba Co. NM

U
 T
 R



Sample no.	DESCRIPTION	PID (PLM)
ATL 504 1	Soil farm com (P2)	5.0