

OK

SUMMIT COUNTY
 NATURAL RESOURCES
 AND OIL & GAS ADMINISTRATION

APPROVED

RANKING SCORE (TOTAL POINTS): ○

Date Remediation Started: 9/22/97 Date Completed: 10/1/97

Remediation Method: Excavation ☒ (Check all appropriate sections) Landfarming ☒ Approx. cubic yards 311 Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: remove contaminated soil and place in an on-site landfarm

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location pit bottom 4 BAKS N,S,E,W
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 19' TPH = 3462 PID = 20PPM
Sample date 10/1/97 Sample time 1400 METHOD: EPA 418.1

Sample Results

Soil: Benzene (ppm) <u>*</u>	Water: Benzene (ppb) <u>N/A</u>
Total BTEX (ppm) <u>*</u>	Toluene (ppb) <u>N/A</u>
Field Headspace (ppm) <u>12</u>	Ethylbenzene (ppb) <u>N/A</u>
TPH (ppm) <u>25</u>	Total Xylenes (ppb) <u>N/A</u>

* Substitute the field-head space test for the BTEX analysis

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 6/18/98 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: 6-18-98

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: *7-Oct-97*
COC No.: *6509*
Sample No.: *16508*
Job No.: *2-1000*

Project Name: *Jicarilla Apache 'I' Well #3 Sep. Pit*
Project Location: *JAI3-300; Sep Pit., Bottom Trench*
Sampled by: *DGM* Date: *1-Oct-97* Time: *14:00*
Analyzed by: *HR* Date: *3-Oct-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	<i>25</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>905</i>	<i>800-1200</i>	<i>mg/kg</i>

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16508-6509</i>	<i><0.1</i>	<i>15.0</i>

Approved by: *[Signature]*

Date: *10/8/97*

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.: *16288*
Job No.: *2-1000*

Project Name: *Jicarilla Apache 'I' #3*
Project Location: *JAI3-100; Sep. Pit 4 Bank Comp.*
Sampled by: *DGM* Date: *23-Sep-97* Time: *13:30*
Analyzed by: *HR* Date: *29-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>3462</i>	<i>250</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>904</i>	<i>800-1200</i>	<i>mg/kg</i>

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16287-6497</i>	<i><LOQ</i>	<i>15.0</i>

Approved by: *[Signature]*
Date: *10/6/97*

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Date _____

Color	Whitening Agent	No. City	Yellow - 1 AB	Pink - Sampler	Goldorod	Clean

ON SITE

CHAIN OF CUSTODY RECORD

6497

TECHNOLOGIES, LTD.

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

Date: 9/23/97

Page 1 of 1

Purchase Order No.:

Job No.

SEND INVOICE TO

Name Shawn Adams

Company CES, Inc.

Address PO Box 3376

City, State, Zip Farmington, NM 87499

Sampling Location:

Ticarrilla Apache Trail #2
" " " #3

Sampler:

DCM

SAMPLE IDENTIFICATION

	SAMPLE		MATRIX	PRES.
	DATE	TIME		
JAI 2-100 Sep. Pit Bottom	9/23/97	1030	Soil	None
JAI 3-100 Sep. Pit 4 Bank Comp	9/23/97	1330	"	"

REPORT RESULTS TO

Name

Company

Mailing Address

City, State, Zip

Telephone No. 325-1198

Telefax No.

SAMPLE

ANALYSIS REQUESTED

Number of Containers

DATE

TIME

MATRIX

PRES.

1

V. 2. 1/25 jar

EPA 48.1

BTEX

PID (PAM)

Depth (#)

LAB ID

1

✓

✓

✓

8

11

11737-645

1

✓

✓

✓

20

7

11738-6

Relinquished by: [Signature] Date/Time: 9/23/97/1615

Relinquished by: [Signature] Date/Time: 9/23/97/1330

Relinquished by: [Signature] Date/Time: 9/23/97/1330

Received by: [Signature] Date/Time: 9/23/97/1615

Received by: [Signature] Date/Time: 9/23/97/1330

Received by: [Signature] Date/Time: 9/23/97/1330

Method of Shipment:

Rush

24-48 Hours

10 Working Days

Special Instructions:

Authorized by:

(Client Signature Must Accompany Request)

Date

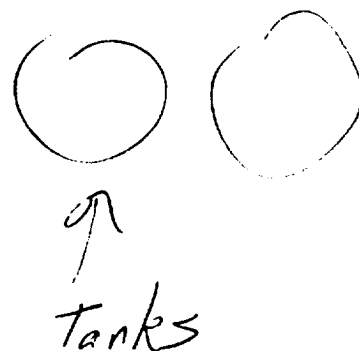
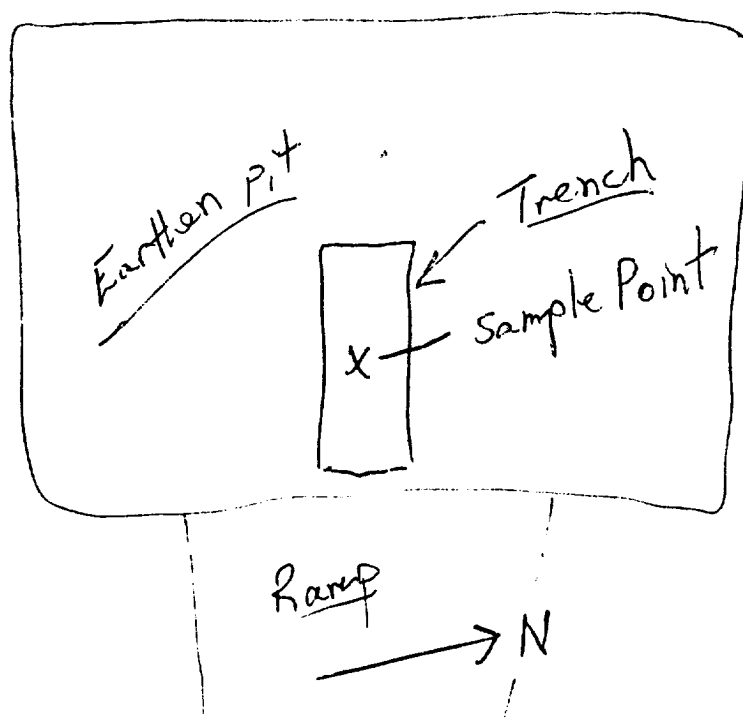
Yellow - On Site Yellow - Lab Pink - Sample

7m Ridge
2/1/97
JAI 3

- arrived JAI #4; backhoe was digging to bedrock
- found JAI #5; b/w JAI 3 & JAI 4 on the right of road going from I4 to I3; this site is closed but the pit is fenced and ready to be pumped/remediated
- arrived JAI #3 to dig ramp and trench into pit to determine extent of contamination

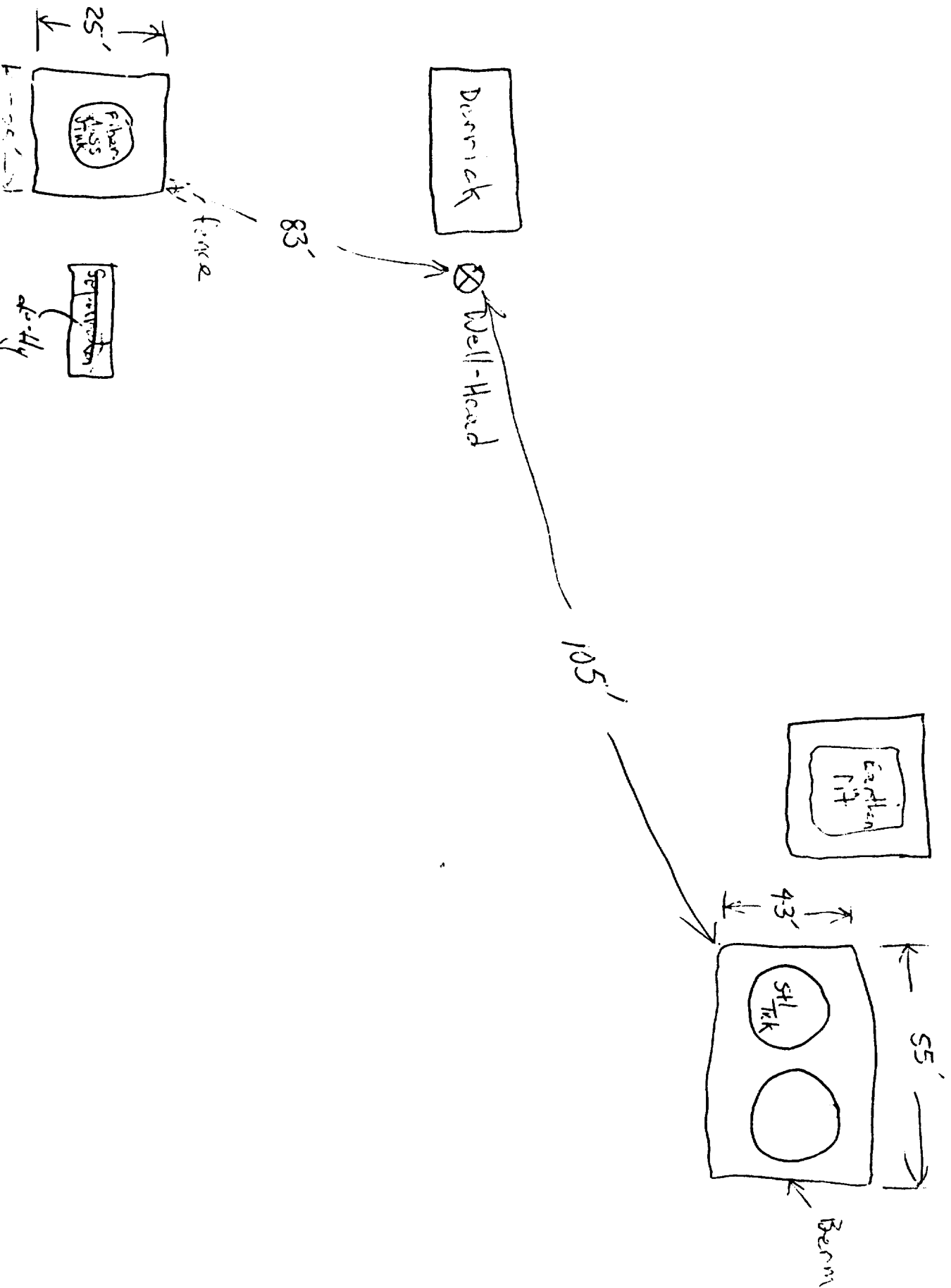
Sample No	Location	Depth	Conc	Remarks
1	Trench - Pit Bottom	15'	200+	
2	" " "	17'	86	
3	" " "	18'	10	
4	" " "	19'	12	this sample was a hard clay PID will be low I think.

4 I3-300



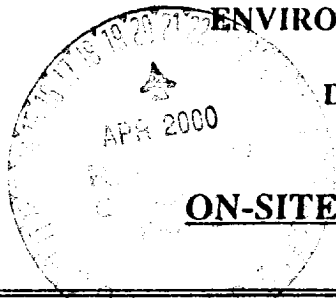
Fin 11/08
IH I #3
9/23/17

→ N



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

SUBMIT A 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 3
Location: Unit or Qtr/Qtr Sec 0 Sec 14 T 23N R 3W County Rio ARIZONA
Land Type: _____

Date Remediation Started: 9/22/97 Date Completed: 6/16/98
Remediation Method: Landfarmed X Approx. cubic yards 311
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: 1:00 PM
Sample Results:
Field Headspace (ppm) 89
TPH (ppm) GAS 0.33 Method BOISM
Other GAS 0.66 (ppm) DIE 1800
DIE 3400 (ppm) by EPA 8015 131 Pic (ppm)

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

DATE 6/16/98 PRINTED NAME STAWN ADAMS
SIGNATURE [Signature] 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) NOT for use as Backfill

SIGNED: [Signature] DATE: 7-27-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jun-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicariilla Apache "I" #3
Work Order:	9806075	Client Sample ID:	JAI3-503; Soil Farm North
Lab ID:	9806075-04A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	6/16/98 1:00:00 PM
		COC Record:	6988

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	1800	25		mg/Kg	1	Analyst: HR 6/27/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	0.33	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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jun-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicariilla Apache "I" #3
Work Order:	9806075	Client Sample ID:	JAI3-502; Soil Farm South
Lab ID:	9806075-03A	Matrix:	SOIL
Project:	Pit Remediation	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	3400	25		mg/Kg	1	Analyst: HR 6/27/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	0.66	0.18		mg/Kg	1	Analyst: DC 6/22/98

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: 6/18/98

of _____

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LAB: (505) 325-5667 • FAX: (505) 325-6256

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