

Date Remediation Started: 8/8/97

Date Completed: 4/20/98

Remediation Method: Excavation ☒

Approx. cubic yards 777

(Check all appropriate sections)

Landfarmed ☒

In situ Bioremediation

Other

Remediation Location: Onsite ☒ 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 ☒ 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 14-15'

GAS ND (PPB)

DIE ND (PPM)

Sample date 4/20/98

Sample time 1:27P

METHOD: BOISM

Sample Results

PID = 4.3

Soil: Benzene (ppm) N/A

Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A

Toluene (ppb) N/A

Field Headspace (ppm) 11.1

Ethylbenzene (ppb) N/A

TPH BOISM (ppm) GAS ND (PPB)

Total Xylenes (ppb) N/A

DIE ND (PPM)

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 5/27/98 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: 5/27/98

CONTRACT ENVIRONMENTAL

DATE 1/20/98 TIME STARTED 13:00 TIME FINISHED 13:35

SITE NAME Jicarilla Apache "B" well 10 Twp

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 4.3 #2 _____ #3 _____ FINALE TIME 13:25

FLOOR #1 11.1 #2 _____ #3 _____ FINALE TIME 13:27

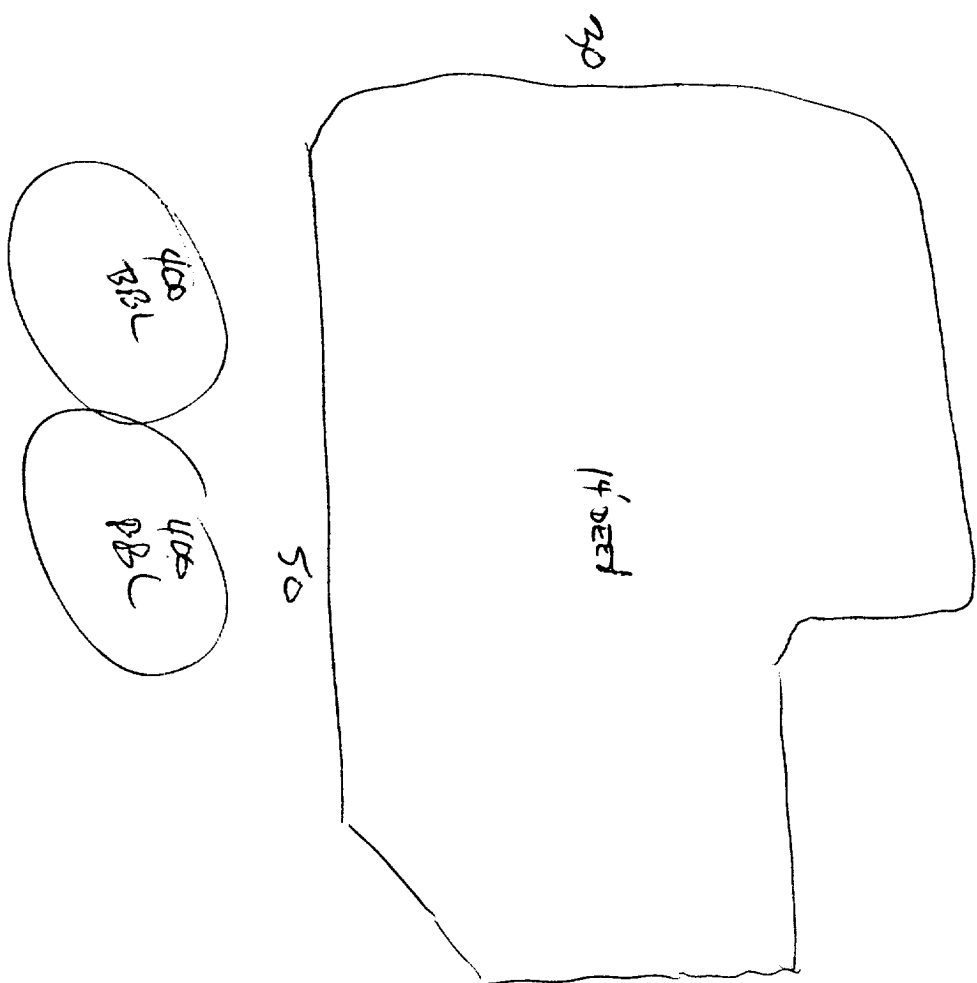
LAND FARM 1.4 SAMPLE TIME 13:30

SPOIL PILE _____ SAMPLE TIME _____

REMARKS: _____

EE

50' x 50'



2/10/2020

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 10
Work Order:	9804029	Client Sample ID:	JB10-104 Floor Tan
Lab ID:	9804029-05A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 1:27:00 PM
		COC Record:	4317

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	4/24/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/23/98
Surr: Trifluorotoluene	105.2	70-130		%REC	1	4/23/98

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

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client: Contract Environmental Services, Inc.
Work Order: 9804029
Lab ID: 9804029-04A **Matrix:** SOIL
Project: Jicarilla Apache "B"

Client Sample Info: Jicarilla Apache "B" Well 10
Client Sample ID: JB10-103 Wall Tan
Collection Date: 4/20/98 1:25:00 PM
COC Record: 4317

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	4/24/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/23/98
Surr: Trifluorotoluene	100.5	70-130		%REC	1	4/23/98

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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Environmental Research Technology, Inc.

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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. LAPLATA STREET, FARMINGTON, NM 87401
Facility or Well Name: JICARILLA APACHE "B" WELL #10 TAN LAND FARM
Location: Unit or Qtr/Qtr Sec K Sec 20 T24N R 5W County RIO ARriba
Land Type: _____

Date Remediation Started: 8/8/97 Date Completed: 4/20/98
Remediation Method: Landfarmed X Approx. cubic yards 777
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: 4/20/98 Time: 1:30

Sample Results:

Field Headspace (ppm) 1.4 ppm
TPH (ppm) Gas - NO Method 8015M
DTE - NO
Other _____

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 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: Lorena J. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client: Contract Environmental Services, Inc.
Work Order: 9804029
Lab ID: 9804029-06A **Matrix:** SOIL
Project: Jicarilla Apache "B"

Client Sample Info: Jicarilla Apache "B" Well 10
Client Sample ID: JB10-105 Land Farm Tan
Collection Date: 4/20/98 1:30:00 PM
COC Record: 4317

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 4/27/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	Analyst: HR 4/23/98
Surr: Trifluorotoluene	73.1	70-130		%REC	1	4/23/98

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E - Value above quantitation range

Surr: - Surrogate

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TECHNOLOGY BLENDING: JICARILLA APACHE "B" WELL 10

1 of 1



CHAIN C. CUS. BODY RECORD

4317.

Date: 4/20/98

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

Purchase Order No.:		Job No.	
SEND INVOICE TO		Name	Title
Company		Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
City, State, Zip		Telephone No.	Telefax No.
Sampling Location: Ticonderoga well 10		325-1198	
Ticonderoga well 12			
Sampler: James R. Kelly		ANALYSIS REQUESTED	
SAMPLE IDENTIFICATION		Number of Containers	LAB ID
DATE	SAMPLE TIME	MATRIX	PRES.
4/20/98	13:15	Soil	W/A
4/20/98	13:17	Soil	W/A
4/20/98	13:20	Soil	W/A
4/20/98	13:25	Soil	W/A
4/20/98	13:27	Soil	W/A
4/20/98	13:30	Soil	W/A
4/20/98	13:35	Soil	W/A
4/20/98	14:05	Soil	W/A
4/20/98	14:10	Soil	W/A
4/20/98	14:15	Soil	W/A
4/20/98	14:22	Soil	W/A
4/20/98	14:28	Soil	W/A
Relinquished by: [Signature]		Date/Time: 4/21/98	
Relinquished by:		Date/Time: 11:30	
Relinquished by:		Date/Time:	
Method of Shipment:		Date/Time:	
Authorized by: [Signature]		Date: 4/21	
Special Instructions:		10 Working Days	