

SUBMIT COPY TO:
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION

APPROVED

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: Brett Cummins Date Completed: 4/16/98

Remediation Method: Excavation X

Approx. cubic yards 833 CY

(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: EXCAVATE CONTAMINATED SOIL, SPREAD ON LOCATION IN LANDFARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Center • Bottom

WALL COMPOSITE N,S,E,W

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 27-28'

Sample date 4/16/98

Sample time 11:36 AM

GAS ND (PPB)

DIE ND (PPM)

METHOD BOISM

PID 1.0 PPM

Sample Results

Soil: Benzene (ppm) N/A

Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A

Toluene (ppb) N/A

Field Headspace (ppm) 2.0

Ethylbenzene (ppb) N/A

TPH (ppm) GAS ND (PPB)

Total Xylenes (ppb) N/A

DIE ND (PPM)

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) _____

SIGNED: Karena L. Callado DATE: May 19, 1998

CONTRACT ENVIRONMENTAL

DATE 4/11/98 TIME STARTED 10:15 TIME FINISHED 11:42

SITE NAME Jicarilla Apache "F" well 9

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 1.0 #2 _____ #3 _____ FINALE TIME 10:25

FLOOR #1 2.0 #2 _____ #3 _____ FINALE TIME 10:36

LAND FARM 7.0 SAMPLE TIME 10:42

SPOIL PILE _____ SAMPLE TIME _____

REMARKS: The Jicarilla Apache "F" well 9
and the Jicarilla Apache "F" well 9-T
~~are~~ Have the same land farm

Apr 8



Excavation

25' DEEP

30'

30'

Gravel
Pit

Step

Soil
Removal

Quarry

Exc.
Area

Top
Soil
Tracks

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client: Contract Environmental Services, Inc.

Client Sample Info: Jicarilla Apache "F" Well 9

Work Order: 9804024

Client Sample ID: JAF9-101; Floor

Lab ID: 9804024-02A **Matrix:** SOIL

Collection Date: 4/16/98 11:36:00 AM

Project: Jicarilla Apache "F" Well 9

COC Record: 4336

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	50		mg/Kg	1	4/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/22/98
Surr: Trifluorotoluene	98.0	70-130		%REC	1	4/22/98

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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P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRIAL WASTE TREATMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "F" Well 9
Work Order:	9804024	Client Sample ID:	JAF9-100; Wall
Lab ID:	9804024-01A	Matrix:	SOIL
Project:	Jicarilla Apache "F" Well 9	Collection Date:	4/16/98 11:25:00 AM
		COC Record:	4336

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	50		mg/Kg	1	4/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/22/98
Surr: Trifluorotoluene	99.0	70-130		%REC	1	4/22/98

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

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

SUBMIT 1 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 F #9
Location: Unit or Qtr/Qtr Sec P Sec 16 T 25N R 5W County _____
Land Type: _____

Date Remediation Started: BRETT CUMMINS Date Completed: 4/16/98
Remediation Method: Landfarmed X Approx. cubic yards 833 cy
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.) 20
Distance To Surface Water: (pts.) 10

Final Closure Sampling:

Sampling Date: 4/16/98 Time: 11:42 AM
Sample Results:
Field Headspace (ppm) 7.0 (ppb)
TPH (ppm) GAS NO Method 8015M
DIE. 290 (ppm)
Other _____

RANKING SCORE (TOTAL POINTS): 30

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

DATE 5/14/98 PRINTED NAME SHAWN 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) _____

SIGNED: [Signature] Karina S. Callado DATE: May 19, 1998

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "F" Well 9
Work Order:	9804024	Client Sample ID:	JAF9-102; Landfarm
Lab ID:	9804024-03A	Matrix:	SOIL
Project:	Jicarilla Apache "F" Well 9	Collection Date:	4/16/98 11:42:00 AM
		COC Record:	4336

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	290	50		mg/Kg	1	4/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/22/98
Surr: Trifluorotoluene	86.9	70-130		%REC	1	4/22/98

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

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "F" Well 9-T
Work Order:	9804023	Client Sample ID:	JA9T-102; Landfarm
Lab ID:	9804023-03A	Matrix:	SOIL
Project:	Jicarilla Apache "F" Well 9-T	Collection Date:	4/16/98 11:42:00 AM
		COC Record:	4335

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	190	50		mg/Kg	1	4/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/22/98
Surr: Trifluorotoluene	91.8	70-130		%REC	1	4/22/98

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



CHAIN OF CUSTODY RECORD

4336

Date: 4/16/98

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: Shawn Adams		Title:	
Company: Contract Envi.		Company:	
Address: P.O. Box 3726		Mailing Address: Sam	
City, State, Zip: Farmington NM 87499		City, State, Zip:	
Sampling Location: Jicarilla Apache "F" well 9		Telephone No. 325-1198	
Telefax No.:		ANALYSIS REQUESTED	
SEND INVOICE TO		RESULTS TO	
Name:		Name:	
Company:		Company:	
Address:		Mailing Address:	
City, State, Zip:		City, State, Zip:	
Telephone No.:		Telephone No.:	
Telefax No.:		Telefax No.:	
Sampling Location:		ANALYSIS REQUESTED	
Number of Containers		LAB ID	
JAF9 100 Wall		9804024-01A	
JAF9 101 Floor		-02A	
JAF9 102 Land Farm		-03A	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Method of Shipment:		Special Instructions:	
Authorized by:		Special Instructions:	