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SUBMIT COPY TO

NATURAL RESOURCE DEPT

ANIMAL & GAS ADMINISTRATION

APPROVED
CONFIDENTIAL —

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: BRET CUMMINS Date Completed: 4/3/98

Remediation Method: Excavation X

Approx. cubic yards 36 CY

(Check all appropriate sections)

Landfarmed X

In situ 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 UNTIL ENCOUNTERED BEDROCK AT 8' DEEP

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location CENTER PIT • BOTTOM

4 BANKS N, S, E, W

Closure Sampling:

(if multiple samples, attach sample results

GAS ND (PPB)

and diagram of sample locations and depths)

Sample depth 7-8' DEEP

DIE 1400 (PPM)

Sample date 4/3/98

Sample time 1:50P

PID 6.0 (PPM)

Sample Results

* BANK ON WELLHEAD

Soil: Benzene (ppm) N/A

Water: Benzene (ppb) N/A

SIDE DIDN'T PASS BUT WE ARE TOO

Total BTEX (ppm) N/A

Toluene (ppb) N/A

CLOSE TO WELLHEAD TO GO FURTHER!

Field Headspace (ppm) 2.0 PPM

Ethylbenzene (ppb) N/A

TPII (ppm) GAS ND

Total Xylenes (ppb) N/A

DIE 150

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 4/21/98 PRINTED NAME SHAWN A. ADAMS

SIGNATURE Shawn Adams AND TITLE ENV. CONSULTANT

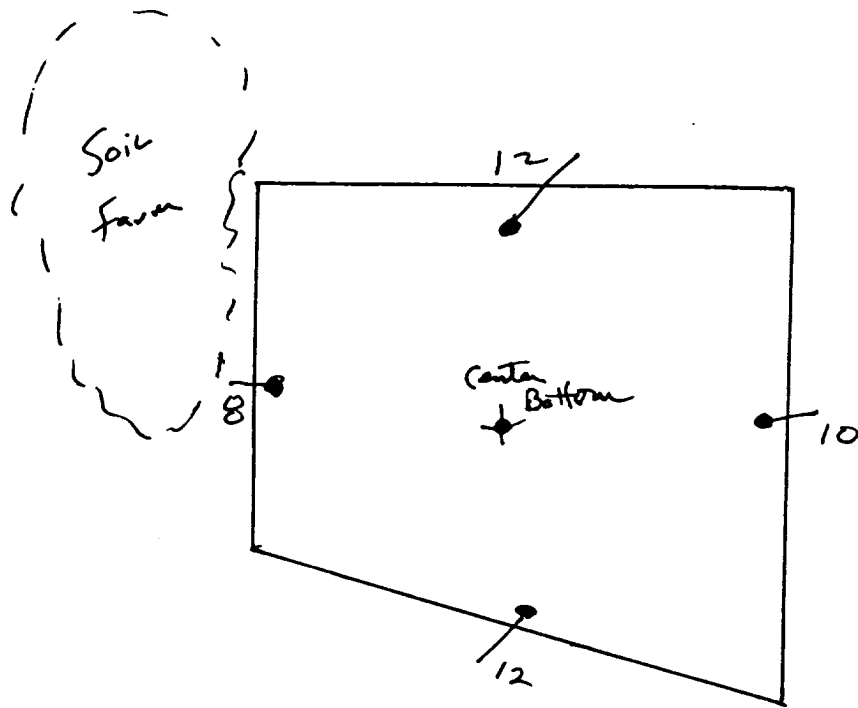
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES _____ NO X (REASON) Conditional Closure till P+A of well

SIGNED Kevin Mann DATE: 5-29-98

Elm-ri

Jic. A F#2
4/3/98



Wt
⑥

Excavation found to be 6' DEEP, MEASUREMENTS ARE APPROXIMATE. TAKE 2 SAMPLES, 1 four bank composite and one bottom sample. 4 oz. glass JARS. PROCESS FOR EPA 418.1, SANDSTONE IN BOTTOM OF EXCAVATION

LAB SAMPLE NO.	DESCRIPTION	P10 (PPM)
JAF2 - 200	4 BANKS N,S,E,W 5' DEEP	6.0 PPM
JAF2 - 201	Center Bottom 7-8' DEEP	2.0 PPM

Outcrop of SS nearby (100') to west.



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache F2
Work Order:	9804011	Client Sample ID:	JAF2-201; Center Bottom
Lab ID:	9804011-02A	Matrix:	SOIL
Project:	Jic Apache F2/F14	Collection Date:	4/3/98 1:50:00 PM
		COC Record:	4323

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	150	25		mg/Kg	1	4/21/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/15/98
Surr: Trifluorotoluene	104.3	70-130		%REC	1	4/15/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache F2
Work Order:	9804011	Client Sample ID:	JAF2-200; 4 Banks
Lab ID:	9804011-01A	Matrix:	SOIL
Project:	Jic Apache F2/F14	Collection Date:	4/3/98
		COC Record:	4323

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	1400	25		mg/Kg	1	4/21/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/15/98
Surr: Trifluorotoluene	97.9	70-130		%REC	1	4/15/98

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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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 WEST LA PLATA STREET, FARMINGTON, NM 87401
Facility or Well Name: JICARILLA APACHE "F" WELL #2 LANDFARM
Location: Unit or Qtr/Qtr Sec D Sec 17 T 25N R 5W County RIO ARriba
Land Type: _____

Date Remediation Started: Brett Cummins Date Completed: 4/3/98
Remediation Method: Landfirmed X Approx. cubic yards 36 cy
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.) 0
Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 5/12/98 Time: 11:47

Sample Results:

Field Headspace (ppm) 1.5 ppm
TPH (ppm) 65 ND Method 8015M
DTE 480 ppm
Other _____

RANKING SCORE (TOTAL POINTS): 10

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 [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) May not be used as backfill.

SIGNED: Karena L. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-May-98

Client: Contract Environmental Services, Inc.
Work Order: 9805038
Lab ID: 9805038-06A
Project: Land Farms

Client Sample Info: Jicarilla Apache F Well 2
Client Sample ID: JAF2-105 Land Farm
Collection Date: 5/12/98 11:47:00 AM
COC Record: 4381

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	480	25		mg/Kg	1	Analyst: DC 5/20/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: DC 5/15/98
Surr: Trifluorotoluene	82.5	70-130		%REC	1	5/15/98

Qualifiers:

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R - Recovery outside accepted recovery limits

V - Value above quantitation range

Surr - Surrogate

1 of 1

CONTRACT ENVIRONMENTAL

DATE 5/12/98

TIME STARTED 11:44

TIME FINISHED 11:51

SITE NAME Sicacilla Apache F well 2

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 _____ #2 _____ #3 _____ FINALE TIME _____

FLOOR #1 _____ #2 _____ #3 _____ FINALE TIME _____

LAND FARM ~~1.5~~ 1.5

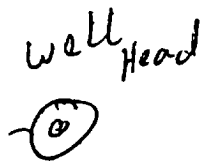
SAMPLE TIME ~~11:47~~ 11:47

SPOIL PILE _____

SAMPLE TIME _____

REMARKS:

↑
N



95

