

Date Remediation Started: BRET CUMMINS Date Completed: 5/28/98

Remediation Method: Excavation X Approx. cubic yards 500 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: REMOVED CONTAMINATED SOIL, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location PIT BOTTOMS CENTER 4 Banks NSEW
Closure Sampling: GAS ND (PPM)
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 18-19' DIE 290 (PPM)
Sample date 5/28/98 Sample time 4:02 PM EIA 80ISM
PID = 17.0
Sample Results

Soil: Benzene (ppm) N/A Water: Benzene (ppb) N/A

Total BTEN (ppm) N/A Toluene (ppb) N/A

Field Headspace (ppm) 47.0 Ethylbenzene (ppb) N/A

TPH 80ISM (ppm) GAS 2 (PPM) Total Xylenes (ppb) N/A
DIE 620 (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 6/8/98 PRINTED NAME SHAWN ADAMS

SIGNATURE Shawn Adams AND TITLE ENG. 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: Shawn Adams DATE: 6-9-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla 362 GD 2
Work Order:	9805087	Client Sample ID:	3622-700; Pit Btm Ctr 18ft.
Lab ID:	9805087-01A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	5/28/98 4:02:00 PM
		COC Record:	4357

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	620	25		mg/Kg	1	6/3/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	2	0.36		mg/Kg	2	6/1/98

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

Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-98

Client: Contract Environmental Services, Inc.
Work Order: 9805087
Lab ID: 9805087-02A **Matrix:** SOIL
Project: Pit Remediation

Client Sample Info: Jicarilla 362 GD 2
Client Sample ID: 3622-701; 4 Banks NSEW
Collection Date: 5/28/98 4:03:00 PM
COC Record: 4357

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	290	25		mg/Kg	1	6/3/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	6/1/98

Qualifiers: PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected

R - RPD outside accepted recovery limits

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 362 GD #2
Location: Unit or Qtr/Qtr Sec NE/SE Sec 5 T 23N R 4W County Rio ARRIBA
Land Type: _____

Date Remediation Started: BRETT CUMMINS Date Completed: 5/
Remediation Method: Landfarmed X Approx. cubic yards 500
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: 5/28/98 Time: 4:15PM
Sample Results:
Field Headspace (ppm) 8/16
TPH 8015M (ppm) GAS ND Method 8015M
DIE 210 (ppm)
Other GAS ND (ppm)
DIE 420 (ppm)

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

DATE 6/8/98 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) NOT for use as Backfill

SIGNED Ken C. Mc DATE: 6-9-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla 362 GD 2
Work Order:	9805087	Client Sample ID:	3622-702; Soil Farm North C
Lab ID:	9805087-03A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	5/28/98 4:15:00 PM
		COC Record:	4357

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	210	25		mg/Kg	1	6/3/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	6/2/98

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: 08-Jun-98

Client: Contract Environmental Services, Inc.
Work Order: 9805087
Lab ID: 9805087-04A **Matrix:** SOIL
Project: Pit Remediation

Client Sample Info: Jicarilla 362 GD 2
Client Sample ID: 3622-703; Soil Farm South C
Collection Date: 5/28/98 4:15:00 PM
COC Record: 4357

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	480	25		mg/Kg	1	6/3/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	6/1/98

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
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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

Elm - N
 Spade
 Ticonderoga 362 G2

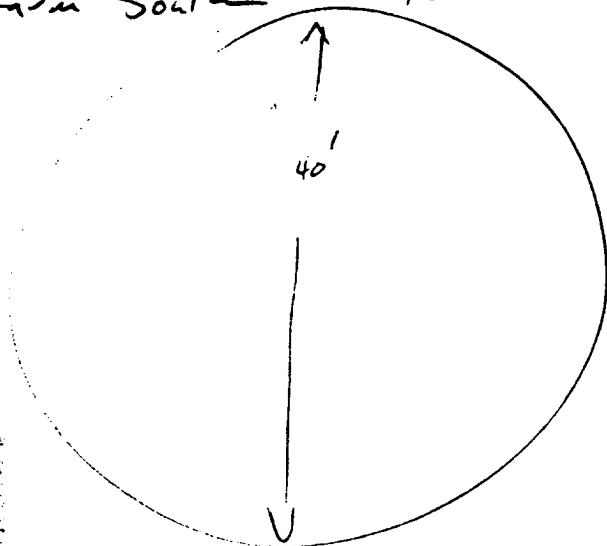
NE/SW Sec 5 T23N R4W
 Rio Arriba, City

NOTES: CAME TO LOCATION TO SAMPLE EXCAVATION
 DANGEROUS BANKS 40' CIRCLE 18' DEEP
 2 SOIL FARMS + STOCKPILED SOIL

all samples taken 1-2'
 Below grade or wall

Sample #	Description	Pb (ppm)
3622-700	Pit bottom Center 18'	47
3622-701	4 Banks N, S, E, W	17
3622-702	Soil farm North	8
3622-703	Soil farm South	16

SUSPECT RE-USE
 PIT, LINES STILL
 ATTACHED draped
 over side



SOIL
 Farm
 South

SOIL
 Farm
 North

