

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

APPROVED

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: BRETT CUMMINS Date Completed: 4/15/98

Remediation Method: Excavation X Approx. cubic yards 580 + RAMP

(Check all appropriate sections)

Landfirmed X

In situ Bioremediation _____

Other _____

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

General Description of Remedial Action: EXCAVATED CONTAMINATED SOIL, SPREAD
ON LOCATION IN STOCKPILES AND SOIL FARM AREA

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom • CENTER 4 BANKS N, S, E, W
Closure Sampling: GAS NO (PPB)
(if multiple samples, DIE NO (PPM)
attach sample results BY EPA 8015 M
and diagram of sample locations and depths) Sample depth 25'
Sample date 4/15/98 Sample time 8:17A

Sample Results

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

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

Field Headspace (ppm) 25.0 Ethylbenzene (ppb) N/A

TPH 8015 M (ppm) GAS NO (PPB) Total Xylenes (ppb) N/A
DIE 32 (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 5/5/98 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 X NO _____ (REASON) _____

SIGNED: Shawn Adams DATE: 5-7-98

CONTRACT ENVIRONMENTAL

DATE 4/15/98 TIME STARTED 02:30 TIME FINISHED 09:00

SITE NAME J. APOCITE "B" WELL 15

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 _____

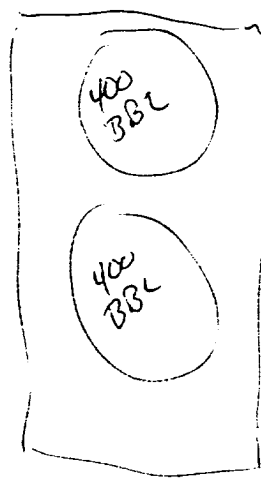
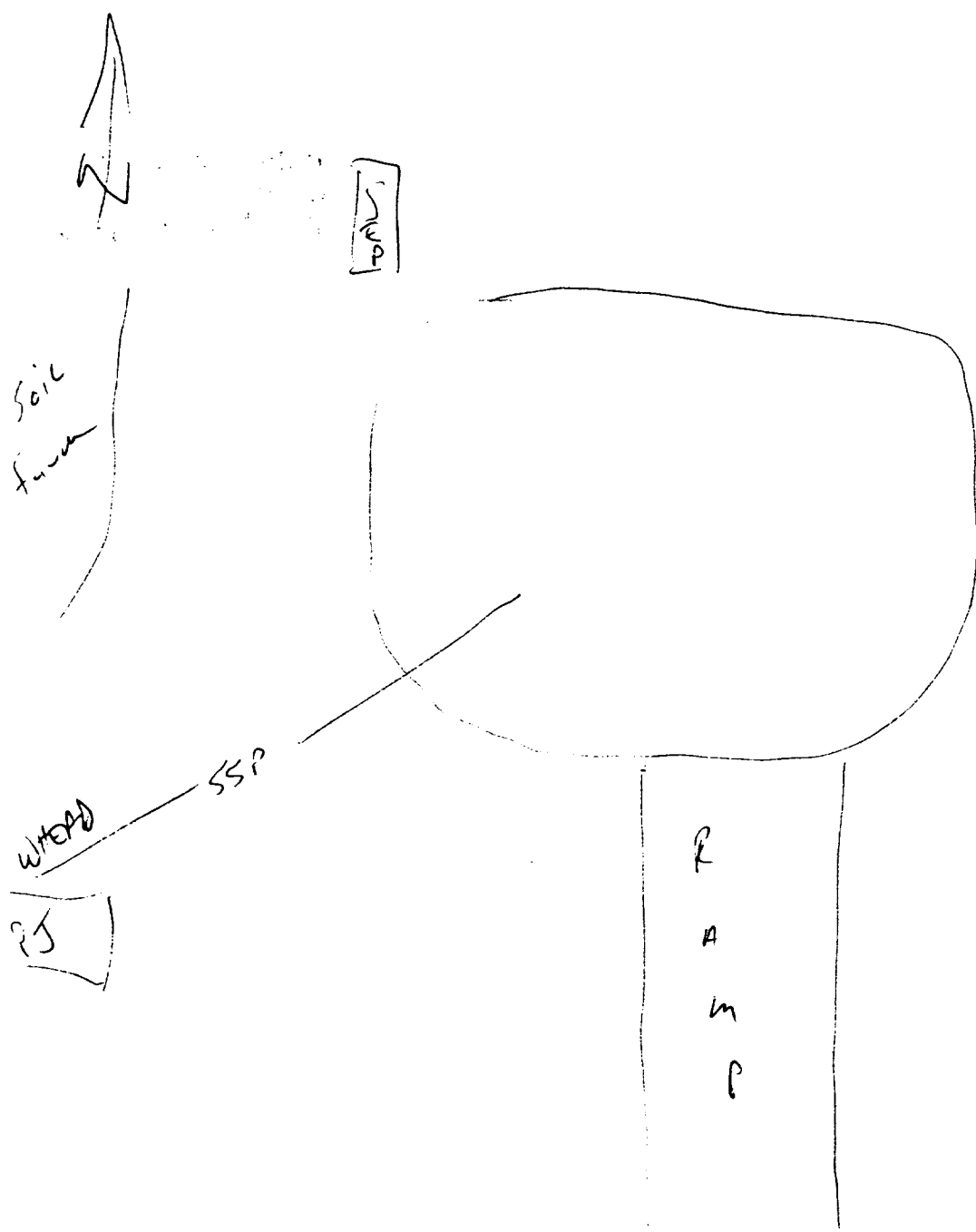
WALL COMPOSITE #1 5.0 #2 _____ #3 _____ FINALE TIME 08:38

FLOOR #1 25.0 #2 _____ #3 _____ FINALE TIME 08:17

LAND FARM 27.4 SAMPLE TIME 08:01

SPOIL PILE 8.0 SAMPLE TIME 08:13

REMARKS: _____



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 15
Work Order:	9804014	Client Sample ID:	JB15-102; Floor
Lab ID:	9804014-03A	Matrix:	SOIL
Project:	Jicarilla Apache "B" Well 15	Collection Date:	4/15/98 8:17:00 AM
		COC Record:	4325

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	32	25		mg/Kg	1	4/22/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/21/98
Surr: Trifluorotoluene	90.5	70-130		%REC	1	4/21/98

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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 15
Work Order:	9804014	Client Sample ID:	JB15-103; Wall
Lab ID:	9804014-04A	Matrix:	SOIL
Project:	Jicarilla Apache "B" Well 15	Collection Date:	4/15/98 8:38:00 AM
		COC Record:	4325

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 4/22/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	Analyst: DC 4/21/98
Surr: Trifluorotoluene	93.4	70-130		%REC	1	4/21/98

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E - Value above quantitation range

Surr: - Surrogate

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 15
Work Order:	9804014	Client Sample ID:	JB15-101; Spoil Piles
Lab ID:	9804014-02A	Matrix:	SOIL
Project:	Jicarilla Apache "B" Well 15	Collection Date:	4/15/98 8:13:00 AM
		COC Record:	4325

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	33	25		mg/Kg	1	Analyst: HR 4/22/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	Analyst: DC 4/21/98
Surr: Trifluorotoluene	93.6	70-130		%REC	1	4/21/98

Qualifiers:

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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CHAIN OF CUSTODY RECORD

4325

Date: 4-15-98

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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.			
Address: P.O. Box 3726			
City, State, Zip: Farmington NM 87499			
Telephone No. 325-1198		Telefax No.:	
Sampling Location: J. Apacie "B" well 15-		ANALYSIS REQUESTED	
REPORT TO RESULTS TO		Number of Containers	
Name: Shawn Adams		LAB ID	
Company: Contract Envi.			
Address: P.O. Box 3726			
City, State, Zip: Farmington NM 87499			
Telephone No. 325-1198			
Sampling Location: J. Apacie "B" well 15-			
Sampler: James K. Kirby			
SAMPLE IDENTIFICATION			
DATE	TIME	MATRIX	PRES.
4/15/98	0801	soil	N/A
4/15/98	0813	soil	N/A
4/15/98	0817	soil	N/A
4/15/98	0828	soil	N/A
JB 15 100 Land Farm Piles			
JB 15 101 Soil Piles			
JB 15 102 Floor			
JB 15 103 Well			
Relinquished by:		Date/Time: 4/17/98	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Method of Shipment:		Date/Time:	
Authorized by: SAA		Date: 4/17	
(Client Signature Must Accompany Request)			
Rush		24-48 Hours	
10 Working Days		Special Instructions:	

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 "B" #15 SOIL FARM SOUTH
Location: Unit or Qtr/Qtr Sec K Sec 30 T 24N R 5W County RIO ARriba
Land Type: _____

Date Remediation Started: BRETT CUMMINS Date Completed: 4/15/98
Remediation Method: Landfarmed X Approx. cubic yards 580+ RAMP
Composted _____
Other _____

Depth To Groundwater: (pts.) 10
Distance to an Ephemeral Stream (pts.) 10
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: 7/15/98 Time: 11:35

Sample Results:

Field Headspace (ppm) 2.6 ppm

TPH (ppm) Gas- NO Method 80/15M
DIE- 250 ppm

Other _____

RANKING SCORE (TOTAL POINTS): 20

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: 28-Jul-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" #15
Work Order:	9807055	Client Sample ID:	JAB15-101; South Side LF
Lab ID:	9807055-02A	Matrix:	SOIL
Project:	Jicarilla Apache "B" #15	Collection Date:	7/15/98 11:35:00 AM
		COC Record:	6992

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	250	25		mg/Kg	1	7/23/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	7/21/98

Qualifiers:

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- 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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ON SITE TECHNOLOGIES, LTD.

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ENVIRONMENTAL PROTECTION OFFICE
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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 "B" WELL #15 SOIL FARM NORTH

Location: Unit or Qtr/Qtr Sec K Sec 30 T 24N R 5W County RIO ARriba

Land Type: _____

Date Remediation Started: BRETT CUMMINS

Date Completed: 4/15/98

Remediation Method: Landfirmed ☒

Approx. cubic yards 580 + RAMP

Composted _____

Other _____

Depth To Groundwater: (pts.) 10

Distance to an Ephemeral Stream (pts.) 10

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): 20

Final Closure Sampling:

Sampling Date: 7/15/98 Time: 11:30

Sample Results:

Field Headspace (ppm) 3.9 ~~3.9~~ NR ppm

TPH (ppm) GAS- ND Method 8015 M

Other DIE - 120 ppm

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

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 ☒ NO _____ (REASON) May not be used as backfill.

SIGNED: Karena J. Callado

DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jul-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" #15
Work Order:	9807055	Client Sample ID:	JAB15-100; North Side LF
Lab ID:	9807055-01A	Matrix:	SOIL
Project:	Jicarilla Apache "B" #15	Collection Date:	7/15/98 11:30:00 AM
		COC Record:	6992

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	120	25		mg/Kg	1	7/23/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	7/21/98

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Surr: - Surrogate

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CHAIN OF CUSTODY RECORD

Date: 7/20/98

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

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Greenrod – Client
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