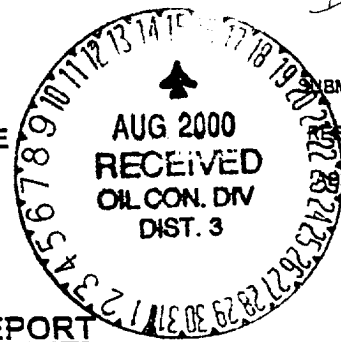


JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528



PIT REMEDIATION AND CLOSURE REPORT

Operator: Robert L Bayless Telephone: 326-2659
Address: 368NM170 Farmington NM 87401
Facility or Well Name: # 101 Jic. JT. Venture PC
Location: Unit: P Sec. 4 T. 23 N. R. 3 W. County Rio Arriba
Pit Type: Separator Dehydrator Other Drip
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 12 width 12 depth 6
(Attach diagram) Reference: wellhead X other
Footage from reference: 35'
Direction from reference: 270° Degrees East North
X West of South

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	<u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1,000 feet from all other water sources)	Yes No	(20 points) (0 points)	<u>0</u>
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	<u>0</u>
Distance to Ephemeral Stream (dry wash): (Horizontal distance to all downgradient streams having a width of at least 10 feet)	Less than or equal to 100 feet Greater than 100 feet	(10 points) (0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Less than or equal to 100 feet Greater than 100 feet	(10 points) (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 11-21-97 Date Completed: 11-21-97

Remediation Method: Excavation _____ Approx. Cubic Yards 2

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 7

Other _____

Remediation Location: Onsite X Offsite _____

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Came in, took down fence. Excavated pit to 6' deep (4' below existing bottom) + took readings. Hit sandstone. took readings. Bottled samples

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling: Sample Location bottom + composite

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

Sample depth 6'

Sample date 11-21-97 Sample time 12:30

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) 2 Toluene (ppb) _____

Field headspace (ppm) 226 Ethylbenzene (ppb) _____

TPH 46 ppm Method 4181 Total Xylenes (ppb) _____

Ground Water 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 MY BELIEF

DATE 11-21-97 PRINTED NAME Dave Sims

SIGNATURE Dave Sims AND TITLE Project Manager

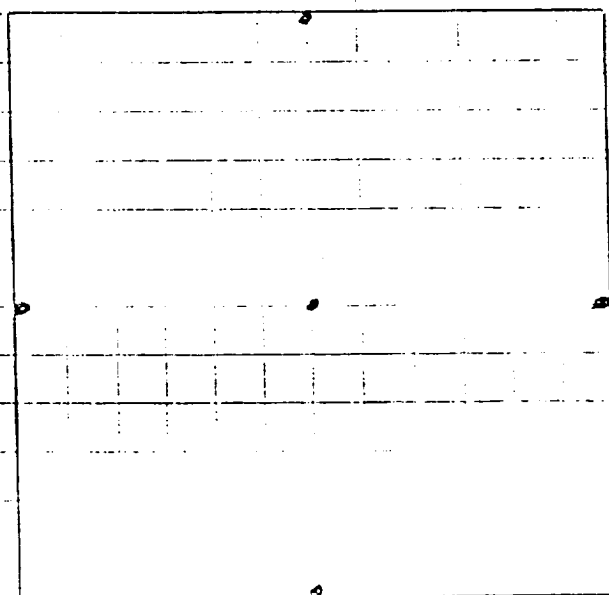
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Karen C. Mamm DATE: 2-6-98

Location: #101 Jic JT Venture PC

Depth: 6



• Denotes Sample Location

Samples:

North: 25

South: 43

East: 56

West: 19

Bottom: 226

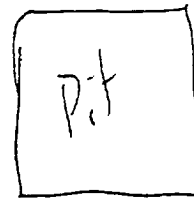
101 Tic Jt Venture PC

N

Wellhouse



Wellhead
O



101 Jiz. JT Venture PC

11-21-97

Moved to Location
took down fence

Excavated pit to 6' (4' deeper than
existing) Hit Sandstone so I took
readings

Bottled Samples
put up fence

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *David Sims*
Company: *Arrowhead*
Address: *P.O. Box 2522*
City, State: *Farmington, NM 87499-2522*

Date: *26-Nov-97*
COC No.: *6594*
Sample No.: *16940*
Job No.: *2-1000*

Project Name: *RMI / Arrowhead*
Project Location: *#101 Jic JT Venture PC Bottom*
Sampled by: *WM* Date: *21-Nov-97* Time: *12:30*
Analyzed by: *DC* Date: *24-Nov-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
<i>TOTAL</i>	ND	ug/kg		

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *11/26/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *David Sims*
Company: *Arrowhead*
Address: *P.O. Box 2522*
City, State: *Farmington, NM 87499-2522*

Date: *1-Dec-97*
COC No.: *6594*
Sample No.: *16940*
Job No.: *2-1000*

Project Name: *RMI / Arrowhead*
Project Location: *#101 Jic JT Venture PC Bottom*
Sampled by: *WM* Date: *21-Nov-97* Time: *12:30*
Analyzed by: *HR* Date: *1-Dec-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	ND	ND	mg/kg
<i>Laboratory Fortified Spike Soil - QCSS1</i>	849	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16974-6596</i>	7.5	15.0

Approved by: *[Signature]*
Date: *12/1/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *David Sims*
Company: *Arrowhead*
Address: *P.O. Box 2522*
City, State: *Farmington, NM 87499-2522*

Date: *26-Nov-97*
COC No.: *6594*
Sample No.: *16939*
Job No.: *2-1000*

Project Name: *RMI / Arrowhead*
Project Location: *#101 Jic JT Venture PC Composite*
Sampled by: *WM*
Analyzed by: *DC*
Sample Matrix: *Soil*

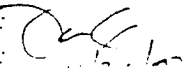
Date: *21-Nov-97* Time: *12:30*
Date: *24-Nov-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	2	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
<i>TOTAL</i>	2	ug/kg		

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: *11/25/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *David Sims*
Company: *Arrowhead*
Address: *P.O. Box 2522*
City, State: *Farmington, NM 87499-2522*

Date: *1-Dec-97*
COC No.: *6594*
Sample No.: *16936*
Job No.: *2-1000*

Project Name: *RMI / Arrowhead*
Project Location: *#101 Jic JT Venture PC Composite*
Sampled by: *WM* Date: *21-Nov-97* Time: *12:30*
Analyzed by: *HR* Date: *1-Dec-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	<i>46</i>	<i>25</i>	<i>mg/kg</i>	<i>EPA Method 418.1</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>ND</i>	<i>ND</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>849</i>	<i>800-1200</i>	<i>mg/kg</i>

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16974-6596</i>	<i>7.5</i>	<i>15.0</i>

Approved by: *[Signature]*
Date: *12/1/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Nov-98

Client:	Robert L. Bayless Oil	Client Sample Info:	A&M Equipment Rentals
Work Order:	9811059	Client Sample ID:	JV 101
Lab ID:	9811059-01A	Matrix:	SOIL
Project:	Jicarilla	Collection Date:	11/17/98 1:36:00 PM
		COC Record:	5604

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
TPH, T/R SOIL		E418.1				Analyst: HR
Petroleum Hydrocarbons, T/R	ND	25		mg/Kg	1	11/19/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

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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

Operator: <u>Robert Bayless</u>		Telephone: <u>325-2659</u>	
Address: <u>318 US Hwy 170 Farmington NM 87401</u>			
Facility or Well Name: <u>JU 109</u>			
Location: Unit: <u>P</u>		Sec. <u>4</u> T. <u>23</u> N. R. <u>3</u> W. County <u>Ro Arriba</u>	
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>11-21-97</u>		Date Completed: <u>11-30-98</u>	
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u> </u>	
Composted: <u> </u>			
Other: <u> </u>			
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream: (pts.) <u>0</u>		Sampling Date: <u>11-17-98</u> Time <u>1:36 PM</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>		Sampling Results:	
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>226</u>	
Distance to Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>440</u> Method <u>E418.1</u>	
Ranking Score (Total Points): <u>0</u>		Other <u>46</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>12-9-98</u>		PRINTED NAME <u>Donovan Allred</u>	
SIGNATURE <u>Donovan Allred</u>		AND TITLE <u>Project manager</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u> </u>			
SIGNED: <u>Ken C. Marshall</u>		DATE: <u>12-16-98</u>	