

District III *Energy & Fuel*
1000 Rio Brazos Rd
Aztec, NM 87410
OIL & GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

DEC 17 1998

OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

Submit 1 copy to
Appropriate District
and 1 copy to
Santa Fe Office

RECEIVED
JUL 6 1998

OIL CON. DIV.

PIT REMEDIATION AND CLOSURE REPORT

Operator: Apache Corporation		Telephone: 505-325-0318																									
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401																											
Facility or Well Name:		Apache # 102 Pit #1																									
Location: Unit or Qtr/Qtr Sec		O Sec 2 T 24 N R 4W County Rio Arriba																									
Pit Type: Separator: XXX		Dehydrator _____ Other _____																									
Land Type: Jicarilla Tribal																											
<table border="0"><tr><td>Beginning Pit Dimensions:</td><td>Length 36'</td><td>Width 30'</td><td>Depth 4'</td></tr><tr><td>Pit Location: Ending Pit Dimensions:</td><td>Length 38'</td><td>Width 23'</td><td>Depth 10'</td></tr><tr><td colspan="4">(Attach diagram)</td></tr><tr><td>Reference:</td><td>Wellhead XXX</td><td colspan="2">Other _____</td></tr><tr><td colspan="2">Footage from reference:</td><td colspan="2">85'</td></tr><tr><td colspan="2">Direction from reference:</td><td colspan="2">248 Degrees _____ East North _____ West of South X</td></tr></table>				Beginning Pit Dimensions:	Length 36'	Width 30'	Depth 4'	Pit Location: Ending Pit Dimensions:	Length 38'	Width 23'	Depth 10'	(Attach diagram)				Reference:	Wellhead XXX	Other _____		Footage from reference:		85'		Direction from reference:		248 Degrees _____ East North _____ West of South X	
Beginning Pit Dimensions:	Length 36'	Width 30'	Depth 4'																								
Pit Location: Ending Pit Dimensions:	Length 38'	Width 23'	Depth 10'																								
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Reference:	Wellhead XXX	Other _____																									
Footage from reference:		85'																									
Direction from reference:		248 Degrees _____ East North _____ West of South X																									
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)																											
<table border="0"><tr><td>Less than 50 feet</td><td>(20 points)</td><td>_____</td></tr><tr><td>50 feet to 99 feet</td><td>(10 points)</td><td>_____</td></tr><tr><td>Greater than 100 feet</td><td>(0 points)</td><td>0</td></tr></table>				Less than 50 feet	(20 points)	_____	50 feet to 99 feet	(10 points)	_____	Greater than 100 feet	(0 points)	0															
Less than 50 feet	(20 points)	_____																									
50 feet to 99 feet	(10 points)	_____																									
Greater than 100 feet	(0 points)	0																									
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)																											
<table border="0"><tr><td>Yes</td><td>(20 points)</td><td>_____</td></tr><tr><td>No</td><td>(0 points)</td><td>0</td></tr></table>				Yes	(20 points)	_____	No	(0 points)	0																		
Yes	(20 points)	_____																									
No	(0 points)	0																									
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)																											
<table border="0"><tr><td>Less than 200 feet</td><td>(20 points)</td><td>_____</td></tr><tr><td>200 feet to 1000 feet</td><td>(10 points)</td><td>_____</td></tr><tr><td>Greater than 1000 feet</td><td>(0 points)</td><td>0</td></tr></table>				Less than 200 feet	(20 points)	_____	200 feet to 1000 feet	(10 points)	_____	Greater than 1000 feet	(0 points)	0															
Less than 200 feet	(20 points)	_____																									
200 feet to 1000 feet	(10 points)	_____																									
Greater than 1000 feet	(0 points)	0																									
RANKING SCORE (TOTAL POINTS) 0																											

Date Remediation Started:		<u>11/17/95</u>		Date Completed:		<u>11/19/95</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>270</u>	
		Landfarmed <u>XX</u>		Insitu Bioremediation			
		Other _____					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite _____			
General Description of Remedial Action:		<u>Excavate pit to 10', took PID readings.</u>					
		<u>Spread soil on location for remediation. Took soil samples. Pit back filled w/ fill dirt</u>					
Groundwater Encountered:		No <u>XX</u>		Yes _____		Depth _____	
Final Pit:		Sample location <u>5 point composite taken from pit sidewalls and pit bottom center</u>					
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)		Sample depth <u>10'</u>		<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
Sample Date		<u>12/14/95</u>		Sample Time		<u>3:30 P.M.</u>	
Sample results							
Benzene		(ppm)		<u>ND</u>			
Total BTEX		(ppm)		<u>0.575</u>			
Field Headspace		(ppm)		<u>25.42</u>			
TPH				<u>1200</u>			
Groundwater Sample:		Yes _____		No <u>XX</u>		(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		<u>June 8, 1998</u>		PRINTED NAME		<u>Jeff Cross</u>	
SIGNATURE		<u>Jeff Cross</u>		AND TITLE		<u>Project Manager</u>	

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

Operator: <u>Apache Corporation</u>		Telephone: <u>505-325-0318</u>	
Address: <u>2855 Southside River Road, Suite A, Farmington, NM 87401</u>			
Facility or Well Name:		<u>Apache # 102 Pit #2</u>	
Location: Unit or Qtr/Qtr Sec	<u>O</u>	<u>Sec 2</u>	<u>T 24 N R 4W</u> County <u>Rio Arriba</u>
Pit Type: Separator: _____	Dehydrator: _____	Other: _____	<u>Tank Drain</u>
Land Type: <u>Jicarilla Tribal</u>			
Beginning Pit Dimensions: Length <u>45'</u> Width <u>45'</u> Depth <u>4.5'</u>			
Pit Location: Ending Pit Dimensions: Length <u>47'</u> Width <u>47'</u> Depth <u>10'</u>	(Attach diagram)		
Reference:	Wellhead <u>XXX</u>	Other _____	
Footage from reference:	<u>95'</u>		
Direction from reference:	<u>156</u> Degrees	<u>X</u> East	North _____
		West	South <u>XX</u>
Depth To Groundwater:			
(vertical distance from	Less than 50 feet	(20 points)	_____
contaminants to seasonal	50 feet to 99 feet	(10 points)	_____
high water elevation of	Greater than 100 feet	(0 points)	<u>0</u>
groundwater)			
Wellhead Protection Area:			
(Less than 200 feet from a private	Yes	(20 points)	_____
domestic water source, or; less than	No	(0 points)	<u>0</u>
1000 feet from all other water sources)			
Distance To Surface Water:			
(Horizontal distance to perennial	Less than 200 feet	(20 points)	_____
lakes, ponds, rivers, streams, creeks,	200 feet to 1000 feet	(10 points)	_____
irrigation canals and ditches)	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS)		<u>0</u>	

Date Remediation Started:		<u>11/18/95</u>	Date Completed:		<u>11/19/95</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards	<u>451</u>	
		Landfarmed <u>XX</u>	Insitu Bioremediation		
		Other _____			
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>	Offsite _____		
General Description of Remedial Action:		<u>Excavate pit to 10', took PID readings.</u>			
		<u>Spread soil on location for remediation. Took soil samples. Pit back filled w/ fill dirt</u>			

Groundwater Encountered:		No <u>XX</u>	Yes _____	Depth _____	
Final Pit:	Sample location	<u>5 point composite taken from pit sidewalls and pit bottom center</u>			
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth <u>10'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
	Sample Date	<u>12/14/95</u>	Sample Time	<u>3:40 P.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>12.3</u>		
	TPH		<u>600</u>		
Groundwater Sample:	Yes _____	No <u>XX</u>	(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		<u>June 8, 1998</u>	PRINTED NAME	<u>Jeff Cross</u>	
SIGNATURE		<u>Jeff Cross</u>	AND TITLE	<u>Project Manager</u>	

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>APACHE CORPORATION</u>		Telephone <u>505-325-0318</u>	
Address: <u>2855 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 102 PIT # 1</u>			
Location:	Unit or Qtr/Qtr	Sec	T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u>XX</u>	Dehydrator	Other
Land Type:	<u>JIC. TRIBAL</u>		
Pit Location: (Attach diagram)			
Pit Dimensions:	Length <u>38'</u>	Width <u>32'</u>	Depth <u>10'</u>
Reference:	Wellhead <u>XXX</u>	Other	
Footage from reference:	<u>85'</u>		
Direction from reference:	<u>248</u> Degrees	East	North
	<u>XX</u> West	of	South
			<u>X</u>
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)		Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)
			<u>0</u>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)		Less than 100 feet Greater than 100 feet	(10 points) (0 points)
			<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and livestock or wildlife watering ponds)		Less than 100 feet Greater than 100 feet	(10 points) (0 points)
			<u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1000 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 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)
			<u>0</u>
		RANKING SCORE (TOTAL POINTS)	
		<u>0</u>	

Date Remediation Started: 11/17/95 Date Completed: 11/19/95

Remediation Method: (Check all appropriate sections)
Excavation XXX Approx. cubic yards 270
Landfarmed XX Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: Excavate pit to 10', took PID readings. spread soil on location for remediation. Took soil samples. Pit was backfilled w/ fill dirt

Groundwater Encountered: No XXX Yes _____ Depth _____

Final Pit: Sample location 5 point composite taken from pit sidewalls and pit bottom center.

Closure Sampling:

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

Sample depth 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 12/14/95 Sample Time 3:30PM
Sample results _____

Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>0.575</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>25.42</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>1200</u>		Total Xylenes	(ppb)	<u>NA</u>

Groundwater Sample: Yes _____ No XXX (If yes attach sample results)

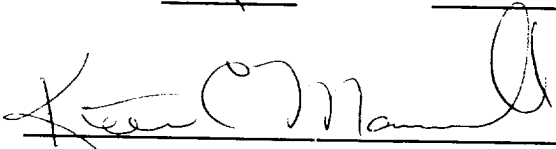
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 4/29/98 PRINTED NAME JEFF CROSS

SIGNATURE  AND TITLE PROJECT MANAGER

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:  DATE: 5-7-98

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>APACHE CORPORATION</u>		Telephone <u>505-325-0318</u>	
Address: <u>2855 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 102 PIT # 2</u>			
Location:	Unit or Qtr/Qtr	Sec	County
	<u>O</u>	<u>SEC 2</u>	<u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>TANK DRAIN</u>
Land Type:	<u>JIC. TRIBAL</u>		
Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>47'</u>	Width <u>47'</u> Depth <u>10'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>
	Footage from reference:	<u>95'</u>	
	Direction from reference:	<u>156</u> Degrees	<u>X</u> East of North <u> </u> West of South <u>XX</u>
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	<u> </u>
	50 feet to 99 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)	Less than 100 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes	(20 points)	<u> </u>
	No	(0 points)	<u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet	(20 points)	<u> </u>
	100 feet to 1000 feet	(10 points)	<u> </u>
	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS)			<u>0</u>

Date Remediation Started: 11/18/95 Date Completed: 11/19/95

Remediation Method: (Check all appropriate sections)
Excavation XXX Approx. cubic yards 451
Landfarmed XX Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: Excavate pit to 10', took PID readings. spread soil on location for remediation. Took soil samples. Pit was back filled w/ fill dirt

Groundwater Encountered: No XXX Yes _____ Depth _____

Final Pit: Sample location 5 point composite taken from pit sidewalls and pit bottom center.

Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 12/14/95 Sample Time 3:40PM
Sample results _____

Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>ND</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>12.3</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>600</u>		Total Xylenes	(ppb)	<u>NA</u>

Groundwater Sample: Yes _____ No XXX (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 4/29/98 PRINTED NAME JEFF CROSS
SIGNATURE Jeff Cross AND TITLE PROJECT MANAGER

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: Ken C. Mamm DATE: 5-7-98

APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 102

PIT COUNT: 2

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE *KCM*

DATE OF REVIEW: *12-27-95*

EXCAVATION									
DIMENSIONS		START		FINISH					
	W	L	D		W	L	D	CU.YDS.	
PIT 1	30'	36	4'	PIT 1	32'	38'	10'	270 810.0	
PIT 2	45'	45'	4.5'	PIT 2	47'	47	10'		
PIT 3				PIT 3				451.0	
DATE: 11/16/95		PIT1@09'	PIT2@09'	PIT3@	DATE: 11/17/95		PIT1@10'	PIT2@10'	PIT3@
P. I. D.	CENTER	280.0	237.0		P.	CENTER	240.0	121.0	
	NW CORNER	140.0	62.9		I.	NW CORNER	117.0	28.1	
	NE CORNER	85.8	103.0		I.	NE CORNER	51.6	79.6	
	SW CORNER	304.0	128.0		D.	SW CORNER	280.0	94.7	
	SE CORNER	275.0	307.0			SE CORNER	258.0	135.0	
NOTES:									

NOTES:

11/17/95- PIT 1 - Dark to lt. staining 4'-8'

11/18/95 PIT 2 - No staining. Strong odor to 8'

*NOTE high BTEX level pit 1. To be re-tested @ time of witnessed sampling.

SOIL SAMPLING

DATE: 11/19/95		PIT1@10'	PIT2@10'	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P.	CENTER	240.0	121.0		PIT	TPH	BETEX	WITNESS	DATE
I.	NW CORNER	117.0	28.1		NO.				
D.	NE CORNER	51.6	79.6	1		4200.0	100.0	IF&S	11/19/95
	SW CORNER	280.0	94.7	2		260.0	ND	IF&S	11/19/95
	SE CORNER	258.0	135.0	3					

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 12/14/95		PIT1@10'	PIT2@10'	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P.	CENTER	53.7	12.3		PIT	TPH	BETEX	WITNESS	DATE
I.	NW CORNER	4.1	8.5		NO.				
D.	NE CORNER	11.1	12.7	1		<i>1200</i>	<i>.575</i>	JDT	12/14/95
	SW CORNER	18.7	13.3	2		<i>600</i>	<i>ND</i>	<i>AT</i>	<i>12/14/95</i>
	SE CORNER	39.5	14.7	3					

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1	PIT 2	PIT 3	ANALYSIS RESULTS			PER LAB:	
P.	CENTER				PIT	TPH	BETEX	WITNESS	DATE
I.	NW CORNER				NO.				
D.	NE CORNER			1					
	SW CORNER			2					
	SE CORNER			3					

[illegible]



SAMPLE DATE 12/14/95

[illegible]

Lab ID: 9511228-05A
 Sample ID: AP#102-H

Collected: 11/17/95 14:45:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	10000	11/28/95	SBTXME090
Toluene	ND	mg/Kg	0.0010	10000	11/28/95	SBTXME090
Ethylbenzene	ND	mg/Kg	0.0010	10000	11/28/95	SBTXME090
P-&m-Xylene	76	mg/Kg	0.0010	10000	11/28/95	SBTXME090
O-Xylene	24	mg/Kg	0.0010	10000	11/28/95	SBTXME090

Lab ID: 9511228-05B
 Sample ID: AP#102-H

Collected: 11/17/95 14:45:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	4200	mg/Kg	5.0	500	11/30/95	SLFTD052
HCs DSL XT/CAL DHS 8015M	11/28/95	N/A				

Lab ID: 9511228-06A
 Sample ID: AP#102-C

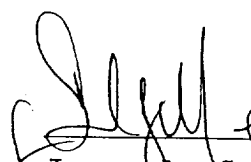
Collected: 11/20/95 14:18:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	11/27/95	SBTXME090
Toluene	ND	mg/Kg	0.0010	50	11/27/95	SBTXME090
Ethylbenzene	ND	mg/Kg	0.0010	50	11/27/95	SBTXME090
P-&m-Xylene	ND	mg/Kg	0.0010	50	11/27/95	SBTXME090
O-Xylene	ND	mg/Kg	0.0010	50	11/27/95	SBTXME090

Lab ID: 9511228-06B
 Sample ID: AP#102-C

Collected: 11/20/95 14:18:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	260	mg/Kg	5.0	50	11/30/95	SLFTD052
HCs DSL XT/CAL DHS 8015M	11/28/95	N/A				


 James A. Seely
 Operations Manager

Lab ID: 9512195-07A
Sample ID: AP #154

Collected: 12/14/95 15:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Ethylbenzene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
P-&m-Xylene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097

Lab ID: 9512195-07B
Sample ID: AP #154

Collected: 12/14/95 15:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M						
Diesel	840	mg/Kg	5.0	100	01/05/96	SLFTD57
HCS DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-08A
Sample ID: AP #103

Collected: 12/14/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097

Lab ID: 9512195-08B
Sample ID: AP #103

Collected: 12/14/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M						
Diesel	550	mg/Kg	5.0	100	01/05/96	SLFTD57
HCS DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-09A
Sample ID: AP #102-H#

Collected: 12/14/95 15:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	0.085	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	0.23	mg/Kg	0.0010	50	12/27/95	SBTXME097

Lab ID: 9512195-09A
Sample ID: AP #102-H

Collected: 12/14/95 15:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A O-Xylene	0.26	mg/Kg	0.0010	50	12/27/95	SBTXME097

Lab ID: 9512195-09B
Sample ID: AP #102-H

Collected: 12/14/95 15:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	1200	mg/Kg	5.0	100	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-10A
Sample ID: AP #102-C

Collected: 12/14/95 15:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
Ethylbenzene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
P-&m-Xylene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097

Lab ID: 9512195-10B
Sample ID: AP #102-C

Collected: 12/14/95 15:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	600	mg/Kg	5.0	50	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-11A
Sample ID: AP #123

Collected: 12/14/95 15:55:00
Matrix: SOIL

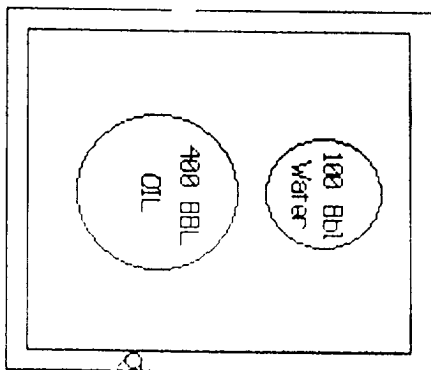
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	0.18	mg/Kg	0.0010	50	12/27/95	SBTXME097
O-Xylene	0.085	mg/Kg	0.0010	50	12/27/95	SBTXME097

COURIER

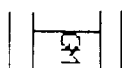
GENERAL DRAINAGE

NORTH

APACHE
APACHE NUMBER 102 Lease # JAT 120
NW/4 NW/4 (D)
SECTION 2 TOWNSHIP 24N RANGE 4W
RIO ARriba COUNTY, NM
Revised 08/01/97 mo



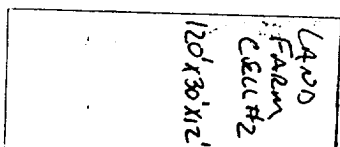
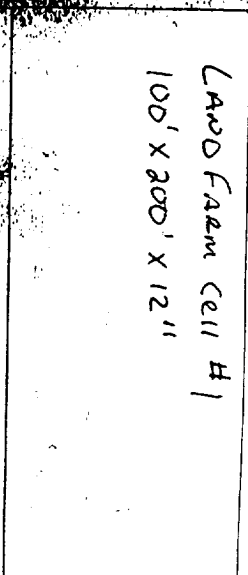
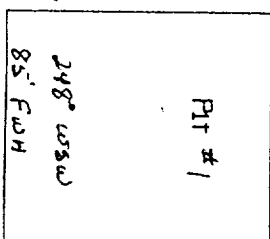
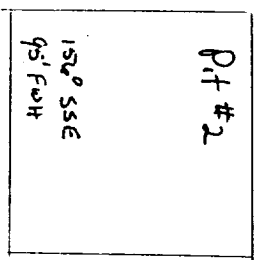
4' X 40' BPG
METER RUN



BPG. LINE DRIP



SEPARATOR



WELL HEAD



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>APACHE CORPORATION</u>		Telephone <u>505-325-0318</u>	
Address: <u>2855 SOUTHSIDE RIVER ROAD/SUITE A / FARMINGTON , N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 102 CELL # 1</u>			
Location: Unit or Qtr/Qtr Sec <u>O</u> Sec <u>2</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>			
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>11/17/95</u> Date Completed: <u>9/9/97</u>			
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>740</u>			
Composted <u> </u>			
Other <u> </u>			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>9/9/97</u> Time: <u>12:00PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>4400</u> Method <u>M8015</u> Other <u>BTEX \ SW846 , 8020A (ND)</u>	
Distance to an Ephemeral Stream: (pts) <u>0</u>			
Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>			
Wellhead Protection Area: (pts) <u>0</u>			
Distance To Surface Water: (pts) <u>0</u>			
RANKING SCORE (TOTAL POINTS) <u>0</u>			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: <u>4/29/98</u>		PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u>Jeff Cross</u>		TITLE <u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u> </u>			
SIGNED: <u>Kurt M. Mendel</u>		DATE: <u>5-1-98</u>	

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>APACHE CORPORATION</u> Telephone <u>505-325-0318</u>	
Address: <u>2855 SOUTHSIDE RIVER ROAD/SUITE A / FARMINGTON , N.M. 87401-7947</u>	
Facility or Well Name: <u>APACHE # 102 CELL # 2</u>	
Location: Unit or Qtr/Qtr Sec <u>O</u> Sec <u>2</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>11/17/95</u> Date Completed: <u>9/9/97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>133</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>9/9/97</u> Time: <u>12:15PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>980</u> Method <u>M8015</u> Other <u>BTEX \ SW846 , 8020A (ND)</u>
Distance to an Ephemeral Stream: (pts) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>	
Wellhead Protection Area: (pts) <u>0</u>	
Distance To Surface Water: (pts) <u>0</u>	
RANKING SCORE (TOTAL POINTS) <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>4/29/98</u> PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u>Jeff Cross</u> TITLE <u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.	
APPROVED: YES <u>X</u> NO _____ (REASON) _____	
SIGNED: <u>Kevin M. ...</u> DATE: <u>5-7-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDATION SITE APACHE

* AMOUNT OF SOIL UNDERGOING REMEDIATION 873 Yds.

CELL No. <u>1</u>	SampDATE 9/9/97	TPH 4400	BTEX ND
DIMENSIONS(LxWxH) <u>100' X 200' X 12"</u>			
CELL LOCATION (dir. from well head <u>EAST</u>)			
* DATE BEGAN: <u>11/17/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>9/9/97</u>			
CELL No. <u>2</u>	SampDATE 9/9/97	TPH 980	BTEX ND
DIMENSIONS(LxWxH) <u>120' X 30' X 12"</u>			
CELL LOCATION (dir. from well head <u>WEST</u>)			
* DATE BEGAN: <u>11/17/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>9/9/97</u>			
CELL No. <u>3</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH) _____			
CELL LOCATION (dir. from well head _____)			
* DATE BEGAN: _____			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
REMEDATION RECORD: (Date, Treatment, Tilling)			
11/25/95 TREAT WITH 28-4-4 FERTILIZER, PLOW AND TILL SOIL.			
5/5/97 TREAT SOIL WITH 46-0-0 FERTILIZER , WATER PLOW AND TILL SOIL.			
6/3/97 PLOW AND TILL SOIL.			
6/23/97 TILL SOIL.			
7/16/97 WATER , PLOW AND TILL SOIL.			
8/25/97 TILL SOIL.			
9/8/97 WATER , PLOW AND TILL SOIL.			

From excavation reports.

WELL NAME:

APACHE # 102 CELL # 1

SAMPLE DATE:

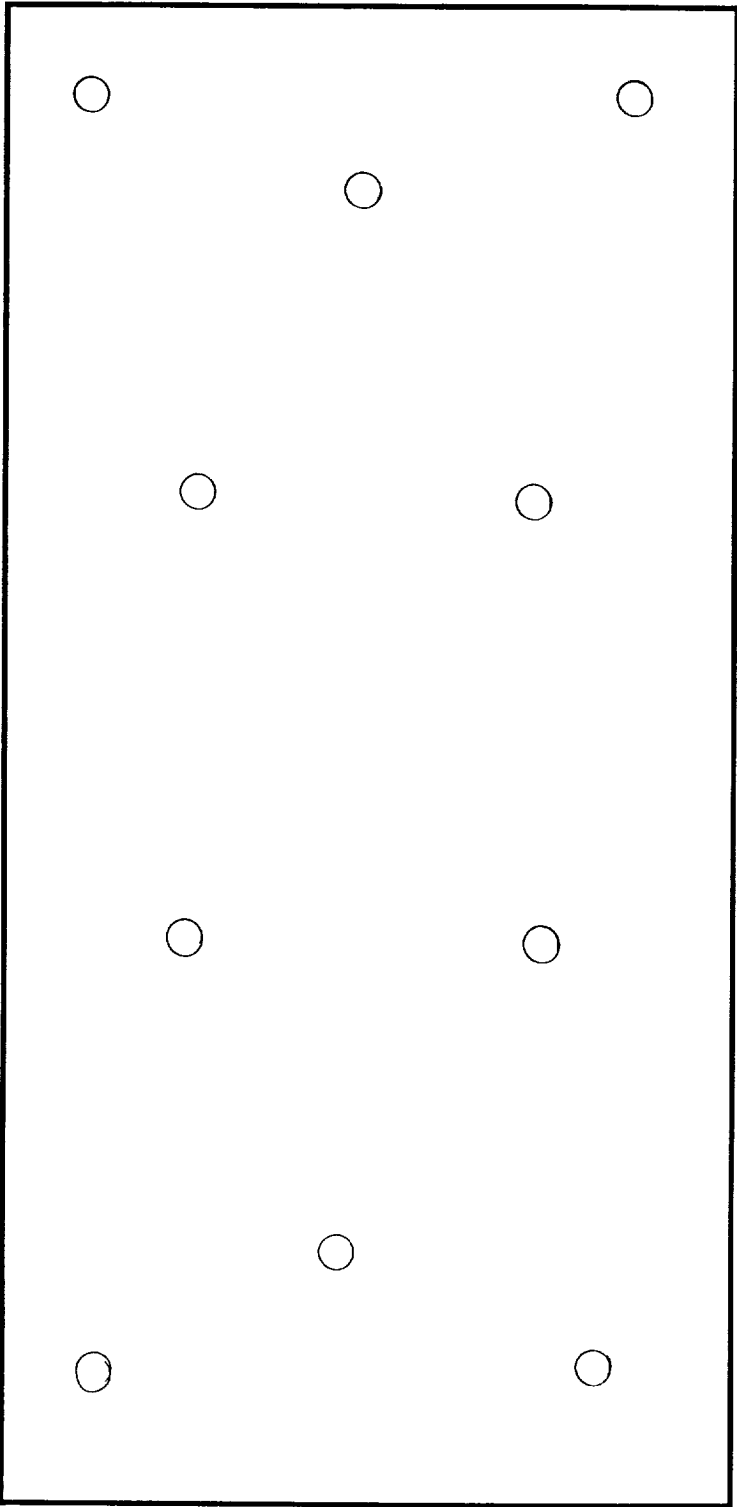
9/9/97

DIMENSIONS:

100' X 200' X 12"



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

10 POINT COMPOSITE SAMPLE.

Handwritten notes area with multiple horizontal lines for text entry.

WELL NAME:

APACHE # 102 CELL # 2

SAMPLE DATE:

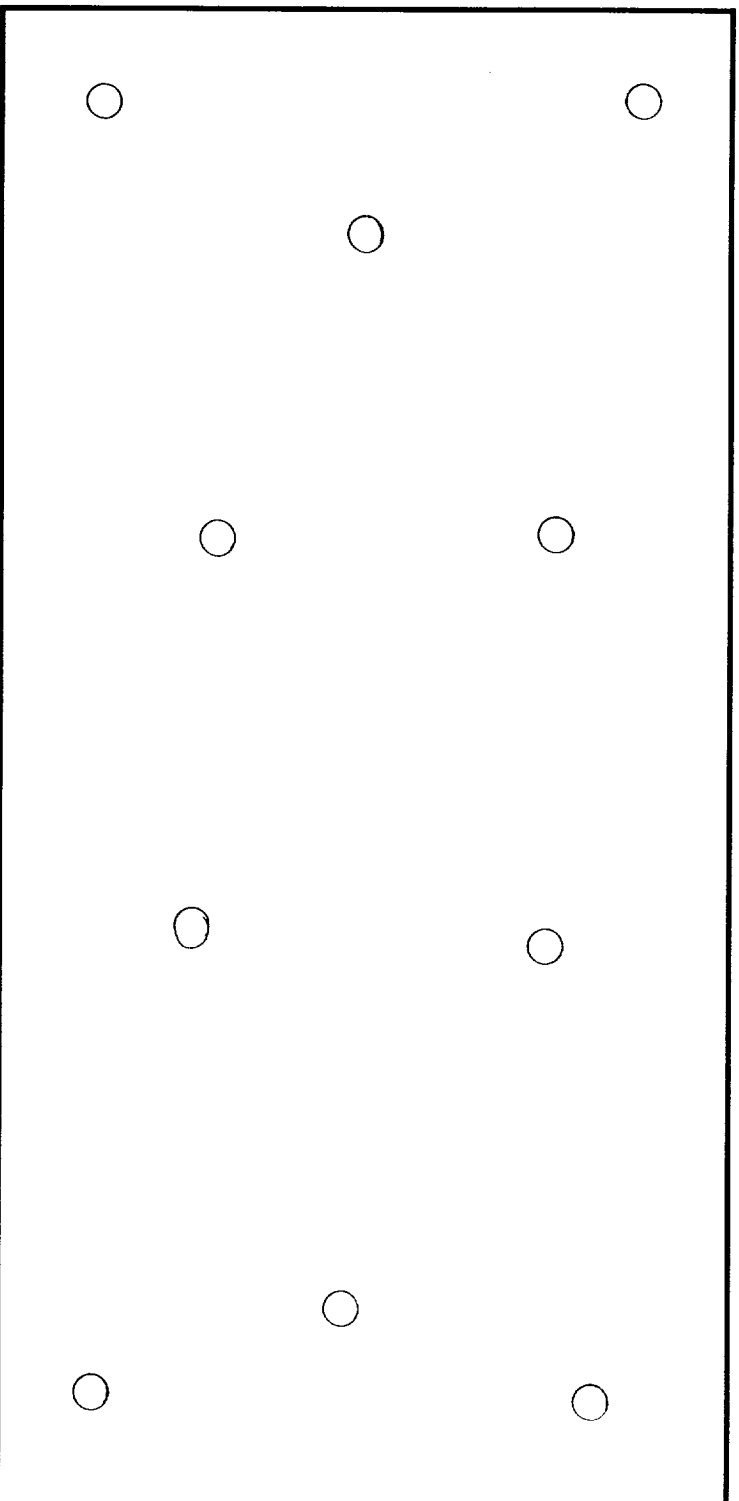
9/9/97

DIMENSIONS:

120' X 30' X 12"



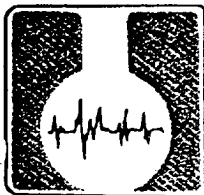
= SAMPLE AREA



NOTES:

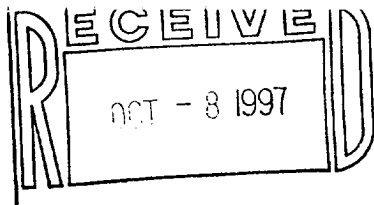
ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

10 POINT COMPOSITE SAMPLE.



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820



Report Generated:

September 23, 1997 10:34

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION

TO: 2855 SOUTHSIDE RIVER RD STE
FARMINGTON, NM 87401-7947

WORKORDER # : 9709112

AWORK ID : JICARILLA PIT CLOSURES

CLIENT CODE : APA01

DATE RECEIVED : 09/12/97

ATTN: JEFF CROSS

Page : 1

Lab ID: 9709112-01A

Sample ID: APACHE 102 CELL 1

Collected: 09/09/97 12:00:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	09/14/97	X97262
Toluene	ND	mg/kg	0.0050	100	09/14/97	X97262
Ethylbenzene	ND	mg/kg	0.0050	100	09/14/97	X97262
P-&m-Xylene	ND	mg/kg	0.010	100	09/14/97	X97262
O-Xylene	ND	mg/kg	0.0050	100	09/14/97	X97262

Lab ID: 9709112-01B

Sample ID: APACHE 102 CELL 1

Collected: 09/09/97 12:00:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	4400	mg/Kg	25	25	09/18/97	SDRO53

Lab ID: 9709112-02A

Sample ID: APACHE 102 CELL 2

Collected: 09/09/97 12:15:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	09/14/97	X97262
Toluene	ND	mg/kg	0.0050	100	09/14/97	X97262
Ethylbenzene	ND	mg/kg	0.0050	100	09/14/97	X97262
P-&m-Xylene	ND	mg/kg	0.010	100	09/14/97	X97262
O-Xylene	ND	mg/kg	0.0050	100	09/14/97	X97262



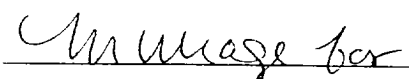
Lab ID: 9709112-02B

Sample ID: APACHE 102 CELL 2

Collected: 09/09/97 12:15:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	980	mg/Kg	25	25	09/18/97	SDRO53


William P. Biava
President

WORKORDER COMMENTS

DATE : 09/23/97

WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

- ND = Analyte "not detected" in analysis at the sample specific detection limit.
- D_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
- B = Analyte was also detected in laboratory method QC blank.
- E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
- LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

LABORATORY