

**3R - 27**

# **REPORTS**

**DATE:**

**1992 - 93**

44345

District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88211  
District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

### PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JARQUEZ GC C #1  
Well Name

Location: Unit or Qtr/Qtr Sec 0 Sec 6 T 29N R 9W County SAN JUAN

Pit Type: Separator      Dehydrator      Other Blow PIT

Land Type: BLM     , State     , Fee ✓, Other     

Pit Location: Pit dimensions: length 40', width 40', depth 2'  
(Attach diagram)

Reference: wellhead X, other     

Footage from reference: 400'

Direction from reference: 0 Degrees      East North       
     <sup>of</sup>       
     West South     

Depth To Ground Water: Less than 50 feet (20 points)  
(Vertical distance from 50 feet to 99 feet (10 points)  
contaminants to seasonal Greater than 100 feet (0 Points) 20  
high water elevation of ground water)

Wellhead Protection Area: Yes (20 points)  
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) No (0 points) 0

Distance To Surface Water: Less than 200 feet (20 points)  
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) 200 feet to 1000 feet (10 points)  
Greater than 1000 feet (0 points) 20

RANKING SCORE (TOTAL POINTS): 40

Date Remediation Started: \_\_\_\_\_ Date Completed: 9/30/93

Remediation Method: Excavation  Approx. cubic yards NA  
(Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location: Onsite  Offsite \_\_\_\_\_  
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: \_\_\_\_\_

Excavation

Ground Water Encountered: No  Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location see Attached Documents

Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) MULTIPLE SAMPLES COLLECTED.

Sample depth \_\_\_\_\_

Sample date 4/23/92 3/18/93 Sample time \_\_\_\_\_

Sample Results

Benzene (ppm) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Field headspace (ppm) \_\_\_\_\_

TPH \_\_\_\_\_

Ground Water Sample: Yes \_\_\_\_\_ No  (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 9/30/93

SIGNATURE B. Shaw

PRINTED NAME AND TITLE

Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR

**ENVIROTECH Inc.**

5798 US HWY. 84, FARMINGTON, NM 87401  
(505) 632-0815

94345  
1492 JJ

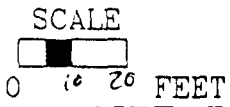
**FIELD REPORT: SITE ASSESSMENT** JOB No: 92140  
PAGE No: 1 of 1

PROJECT: <u>PIT ASSESSMENTS &amp; CLOSURE</u> CLIENT: <u>AMOCO PRODUCTION COMPANY</u> CONTRACTOR: <u>ENVIROTECH, INC.</u> EQUIPMENT USED: <u>Backhoe w/ 24" AT</u>	DATE STARTED: <u>6/23/92</u> DATE FINISHED: <u>6/23/92</u> ENVIRO. SPCLT: <u>RB</u> OPERATOR: <u>BW</u> ASSISTANT: <u>LT</u>
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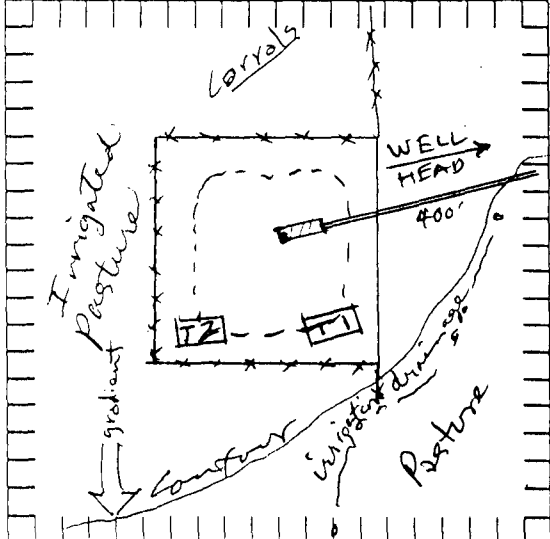
LOCATION: LSE: Jaguar GC C WELL: ET #1 QD: SW/4 SE/4 (C)  
 SEC: 6 TWP: T29N RNG: R9W PM: NMPM CNTY: SJ ST: NM PIT: BLOW PIT 2  
 LAND USE: Agricultural pasture + rural developments (Corrals)  
 SURFACE CONDITIONS: Earthen pit (40' x 40') unlined pit

**FIELD NOTES & REMARKS:** Perimeter fence around Blow Pit poorly maintained with cow tracks. Observed in interior of Blow Pit, old farm implements scattered area surrounding Blow Pit. Soils show some discoloration in T1 + T2 near the 2'-3' depth. Soils are sandy w/ limited groundwater insufficient for sampling at 10'-11' depth.

SAMPLE INVENTORY:		
SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
T2es'	SOIL	HEAD
T2Us'	SOIL	TPH/8020



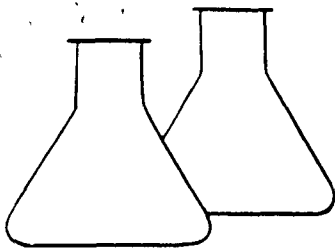
**SITE DIAGRAM**



**TEST HOLE LOGS:**

TH#:	TH#:	TH#:	TH#:
SOIL TYPE:	SMPL TYPE:	SOIL TYPE:	SMPL TYPE:
1	2		
2	CH		
3	BLOW PIT		
4	BOTTOM		
5	CH		
10	2		
	1		
	2		
	1		

SOIL TYPE: C - Clay, M - Silt, S - Sand, G - Gravel      Photo: L - None, H - Plankle      Grading: P - Peats, V - Wet



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	92140
Sample ID:	T-2 @ 5'	Date Reported:	07-27-92
Laboratory Number:	1563	Date Sampled:	06-23-92
Sample Matrix:	Soil	Date Received:	06-23-92
Preservative:	Cool	Date Analyzed:	07-24-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	14.1	5.0

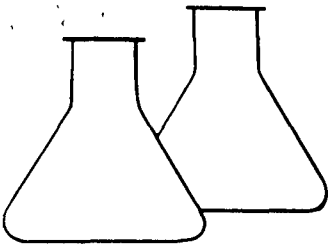
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez E-1 Blow Pit 2 94345

Robert M. Young  
Analyst

Neil Sawwards  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ 5'	Date Reported:	10-13-92
Laboratory Number:	1563	Date Sampled:	06-23-92
Sample Matrix:	Soil	Date Received:	06-23-92
Preservative:	Cool	Date Extracted:	07-24-92
Condition:	Cool & Intact	Date Analyzed:	10-11-92
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	28.6
Toluene	570	76
Ethylbenzene	132	19.1
p,m-Xylene	980	47.7
o-Xylene	331	28.6

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	115 %
	Bromfluorobenzene	94 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

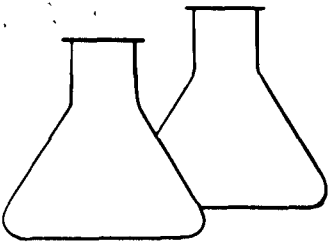
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1---Blow Pit 2---94345

A. Chahar  
Analyst

Morris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020  
AROMATIC VOLATILE ORGANICS  
HEADSPACE EXTRACTION

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ 5'	Date Reported:	09-23-92
Laboratory Number:	1562	Date Sampled:	06-23-92
Sample Matrix:	Soil	Date Received:	06-23-92
Preservative:	Cool	Date Analyzed:	09-11-92
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	1.5	0.9
Ethylbenzene	1.0	0.6
p,m-Xylene	3.9	1.0
o-Xylene	ND	0.5

Method: Method 3810, Headspace, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1---Blow Pit 2---94345

Al Chaharong  
Analyst

Merrill Young  
Review

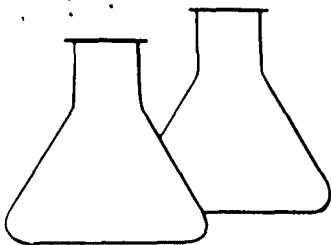
1492

CHAIN OF CUSTODY RECORD

Client/Project Name <b>Amoco 92140</b>		Project Location <b>Blow Pit 2</b>		ANALYSIS/PARAMETERS					94345		
Sampler: (Signature) <i>[Signature]</i>		Chain of Custody Tape No. <b>Jaquez</b>		No. of Containers <b>1</b>		HEAD		BCTX		Remarks	
Sample No./ Identification		Sample Date		Sample Time		Lab Number		Sample Matrix		Remarks	
T2 @ 5'		6/23/92		1445		1562		Soil		BCTX B020 TPH 471	
T2 @ 5'		6/23/92		1445		1563		Soil		BCTX	
NO Trace   BIK											
Relinquished by: (Signature) <i>[Signature]</i>		Date <b>6/23/92</b>		Time <b>1700</b>		Received by: (Signature) <i>[Signature]</i>		Date <b>6/23/92</b>		Time <b>1700</b>	
Relinquished by: (Signature)						Received by: (Signature)					

**ENVIROTECH INC.**  
5796 U.S. Highway 64-3014  
Farmington, New Mexico 87401  
(505) 632-0615





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS


Client:	Amoco	Project #:	92140
Sample ID:	T3 @ GW (9')	Date Sampled:	03-18-93
Laboratory Number:	4804	Date Received:	03-18-93
Sample Matrix:	Water	Date Analyzed:	03-19-93
Preservative:	Cool	Date Reported:	03-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

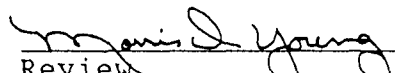
Parameter	Concentration (mg/L)	Det. Limit (mg/L)
-----	-----	-----
TPH	ND	0.5

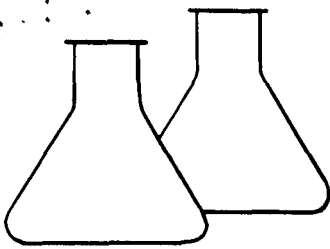
Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Blow Pit II  
94345

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ GW (9')	Date Reported:	03-22-93
Laboratory Number:	4803	Date Sampled:	03-18-93
Sample Matrix:	Water	Date Received:	03-18-93
Preservative:	HgCl and Cool	Date Analyzed:	03-19-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

<u>Parameter</u>	<u>Concentration (ug/L)</u>	<u>Det. Limit (ug/L)</u>
Benzene	ND	0.3
Toluene	ND	0.4
Ethylbenzene	ND	0.3
p,m-Xylene	ND	0.8
o-Xylene	ND	0.4

<u>SURROGATE RECOVERIES:</u>	<u>Parameter</u>	<u>Percent Recovery</u>
	Trifluorotoluene	103 %
	Bromofluorobenzene	104 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1, Blow Pit II, 94345.

A. Chohan  
Analyst

Mavis D. Young  
Review



94807

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JARQUEZ GC E #1  
Well Name

Location: Unit or Qtr/Qtr Sec 0 Sec 6 T29N R County SAN JUAN

Pit Type: Separator \_\_\_ Dehydrator \_\_\_ Other ABANDONED COMPRESSOR

Land Type: BLM \_\_\_ , State \_\_\_ , Fee  , Other \_\_\_

Pit Location: Pit dimensions: length 21' , width 26' , depth 0'  
(Attach diagram)

Reference: wellhead  , other \_\_\_

Footage from reference: 62'

Direction from reference: 56 Degrees  East North   
of  
\_\_\_ West South \_\_\_

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 Points)	<u>20</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)	
	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 200 feet	(20 points)	
	200 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	<u>20</u>

RANKING SCORE (TOTAL POINTS): 40

Date Remediation Started: \_\_\_\_\_ Date Completed: 3/18/93

Remediation Method: Excavation  Approx. cubic yards \_\_\_\_\_  
(Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_  
Other CLOSE AS IS

Remediation Location: Onsite  Offsite \_\_\_\_\_  
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: \_\_\_\_\_  
Excavation, NO REMEDIATION NECESSARY.

Ground Water Encountered: No \_\_\_\_\_ Yes  Depth 4'

Final Pit: Sample location see Attached Documents  
Closure Sampling: MULTIPLE SAMPLES COLLECTED.  
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth \_\_\_\_\_  
Sample date 3/17/93 Sample time \_\_\_\_\_

Sample Results  
Benzene (ppm) \_\_\_\_\_  
Total BTEX (ppm) \_\_\_\_\_  
Field headspace (ppm) \_\_\_\_\_  
TPH \_\_\_\_\_

Ground Water Sample: Yes  No \_\_\_\_\_ (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 3/18/93  
SIGNATURE B. Shaw PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator



EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS

Client: Amoco Project #: 92140  
Sample ID: T1 @ 1.5' Date Sampled: 03-17-93  
Laboratory Number: 4789 Date Received: 03-17-93  
Sample Matrix: Soil Date Analyzed: 03-18-93  
Preservative: Cool Date Reported: 03-18-93  
Condition: Cool & Intact Analysis Needed: TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	42.5	5.0

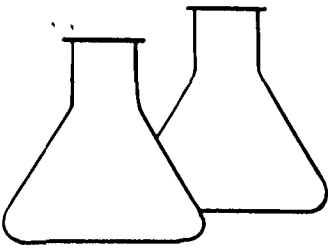
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Compr. Abandoned Pit  
94807

Steve Feltman  
Analyst

Marvin D Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 1.5'	Date Reported:	03-18-93
Laboratory Number:	4789	Date Sampled:	03-17-93
Sample Matrix:	Soil	Date Received:	03-17-93
Preservative:	Cool	Date Extracted:	03-18-93
Condition:	Cool & Intact	Date Analyzed:	03-18-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	20.1
Toluene	54	40.2
Ethylbenzene	ND	40.2
p,m-Xylene	172	90
o-Xylene	ND	50.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	103 %
	Bromofluorobenzene	85 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

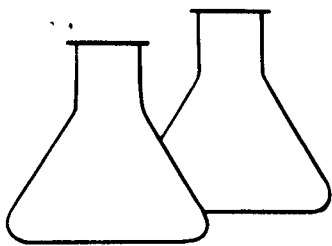
ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1, Compressor Abandoned, 94807.

As Chahalang  
Analyst

Marion D. Young  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ GW (4')	Date Reported:	03-18-93
Laboratory Number:	4791	Date Sampled:	03-17-93
Sample Matrix:	Water	Date Received:	03-17-93
Preservative:	HgCl and Cool	Date Analyzed:	03-18-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
-----	-----	-----
Benzene	3.3	0.2
Toluene	3.7	0.4
Ethylbenzene	ND	0.4
p,m-Xylene	8.3	0.9
o-Xylene	1.6	0.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	76 %
	Bromofluorobenzene	98 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

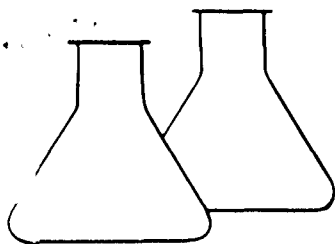
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1, Compressor Abandoned, 94807.

De Chaharlang  
Analyst

Thomas J. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ GW (4')	Date Sampled:	03-17-93
Laboratory Number:	4790	Date Received:	03-17-93
Sample Matrix:	Water	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
-----	-----	-----
TPH	0.8	0.5

Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Compr. Abandoned Pit  
94807

Sheila Feltman  
Analyst

Marie D Young  
Review

**ENVIROTECH Inc.**

5796 US HWY. 84, FARMINGTON, NM 87401  
(505) 832-0815

94805

**FIELD REPORT: SITE ASSESSMENT**

JOB No: 92140  
PAGE No: 1 of 2

PROJECT: PIT ASSESSMENTS & CLOSURE  
CLIENT: AMOCO PRODUCTION COMPANY  
CONTRACTOR: ENVIROTECH, INC.  
EQUIPMENT USED: EXTENSORA-HOE # 538

DATE STARTED: 3/16/93  
DATE FINISHED: 3/17/93  
ENVIRO. SPCLT: NV  
OPERATOR: BW  
ASSISTANT: TC

LOCATION: LSE: JACQUEZ WELL: GC E1 QD: (0) SW 4 SE 4  
SEC: 6 TWP: 29N RNG: 9W PM: NM CNTY: SAN JUAN STATE: NM PIT: ABANDONED

LAND USE: RANGE RESIDENTIAL

SURFACE CONDITIONS: CLEARED OUT, NO VEGETATION, LEACHED (WHITE)

FIELD NOTES & REMARKS: SOIL CONSISTS OF BLACK MOIST SAND @ T1 FROM 1' TO APPROX. 4 1/2' INTERVAL. STRONG PETROLEUM ODOR. DUE TO TEST HOLE BEING DUG TOO DEEP INITIALLY, GRUBBING IN OCCURRED. UNABLE TO COLLECT GROUNDWATER SAMPLE @ T1. PLUME AREA APPEARS TO BE ISOLATED TO THE ORIGINAL PIT LOCATION. APPROXIMATE VOLUME OF CONTAMINATION EQUALS 25' X 30' X 4' (111 CUBIC YARDS).  
HAZ-1 = 0.00 PPM HAZ-2 = 0.6 PPM  
SEE SITE DIAGRAM FOR PIT LOCATION APPROXIMATED FROM THE JACQUEZ HOUSE.

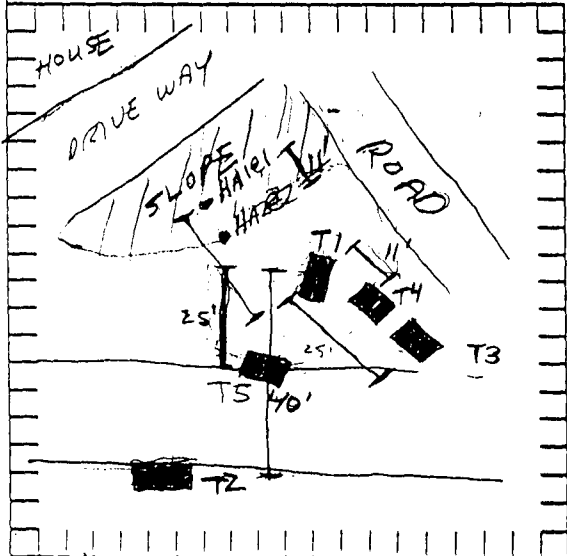
**SAMPLE INVENTORY:**

SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
T1 S	SOIL	BTEX/TPH
T1 @ 3'	WATER	PERCHLOROFORM
T2 S	SOIL	TPH
T2 @ 3'	WATER	TPH
T2 @ 6'	WATER	TPH
T2 @ 6'	WATER	BTEX
T3 @ 3'	SOIL	TPH/BTEX
T3 @ 6'	WATER	TPH
T3 @ 6'	WATER	BTEX

2468  
2468

**TEST HOLE LOGS:**

TH#:	SOIL		SMPL QTY/TYPE:		TH#:	SOIL		SMPL QTY/TYPE:		TH#:	SOIL		SMPL QTY/TYPE:		TH#:	SOIL		SMPL QTY/TYPE:	
	TYPE:	TYPE:	TYPE:	TPH		TYPE:	TYPE:	TYPE:	TPH		TYPE:	TYPE:	TYPE:	TYPE:		TYPE:	TPH	TYPE:	TYPE:
1				BLACK MOIST SAND	2				MOIST BROWN	3				BLACK MOIST SAND	4				BLACK MOIST SAND
2	SP			666	3	SP			0.6	4	SP			0.9	5	SP			20.6
3					4	GW			0.0	5	TD			4'	6	TD			3'
4					5					6	GW			3 1/2'	7	GW			3 1/2'
5				BROWN - SAND SATURATED	8					9	TD			4'					
6	GW			0.6							GW			5'					



SOIL TYPE: G - Clay, M - Sil, S - Sand, C - Coarse, P - Plastic, L - None, H - Plastic, Gravel: P - Peas, V - Vol

**ENVIROTECH Inc.**

5798 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0815

**FIELD REPORT: SITE ASSESSMENT**

JOB No: 92140  
PAGE No: 2 of 2

PROJECT: PIT ASSESSMENTS & CLOSURE  
CLIENT: AMOCO PRODUCTION COMPANY  
CONTRACTOR: ENVIROTECH INC.  
EQUIPMENT USED: \_\_\_\_\_

DATE STARTED: 3/16/93  
DATE FINISHED: 3/17/93  
ENVIRO. SPCLT: NV  
OPERATOR: BW  
ASSISTANT: TC

LOCATION: LSE: JARWEZ WELL: GC E1 QD: \_\_\_\_\_  
SEC: TWP: RNG: PM: CNTY: ST: PIT: ABANDONED

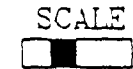
LAND USE: \_\_\_\_\_

SURFACE CONDITIONS: \_\_\_\_\_

**FIELD NOTES & REMARKS:**

cont'd

SAMPLE INVENTORY:		
SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:

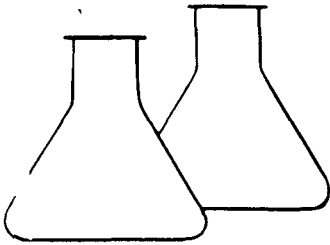


**SITE DIAGRAM**

**TEST HOLE LOGS:**

TH#:	SOIL TYPE:	SMPL TYPE:	OVN/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVN/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVN/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVN/TPH
5	1														
	2	SP	3.7												
	3	GRAY													
	4	SP	2.1												
	5	BROWN GRAY	1.2												
	6	TD	5'												
		BW	4 1/2'												

SOIL TYPE C - Clay, M - Silt, S - Sand, G - Gravel      Phospha L - Lime, H - Phospha      Grading P - Potholes, W - Well



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 1.5'	Date Sampled:	03-16-93
Laboratory Number:	4759	Date Received:	03-16-93
Sample Matrix:	Soil	Date Analyzed:	03-16-93
Preservative:	Cool	Date Reported:	03-16-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
----- Total Petroleum Hydrocarbons	----- 26,200	----- 250

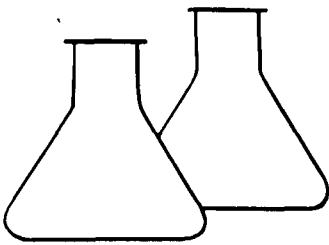
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Abandoned Pit  
94805

Heidi Ferrara  
Analyst

Mari J. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 1.5'	Date Reported:	03-16-93
Laboratory Number:	4759	Date Sampled:	03-16-93
Sample Matrix:	Soil	Date Received:	03-16-93
Preservative:	Cool	Date Extracted:	03-16-93
Condition:	Cool & Intact	Date Analyzed:	03-16-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	3,720	167
Toluene	33,600	250
Ethylbenzene	12,300	167
p,m-Xylene	105,200	250
o-Xylene	10,800	167

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	109 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

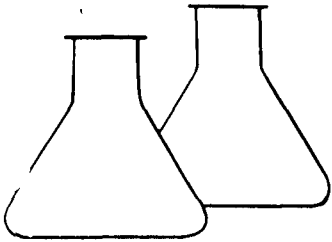
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1, Abandoned Pit, 94805.

As. Chaharlang  
Analyst

Marian D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ 3'	Date Sampled:	03-16-93
Laboratory Number:	4760	Date Received:	03-16-93
Sample Matrix:	Soil	Date Analyzed:	03-17-93
Preservative:	Cool	Date Reported:	03-17-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	ND	10

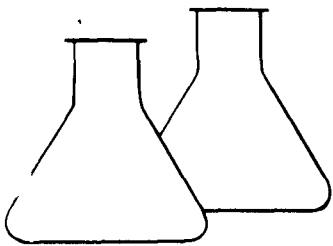
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Abandoned Pit  
94805

*Heita Lelander*  
Analyst

*Maris D Young*  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ GW (4')	Date Sampled:	03-16-93
Laboratory Number:	4762	Date Received:	03-16-93
Sample Matrix:	Water	Date Analyzed:	03-17-93
Preservative:	Cool	Date Reported:	03-17-93
Condition:	Cool	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
-----	-----	-----
TPH	ND	0.5

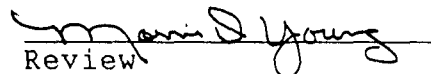
Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

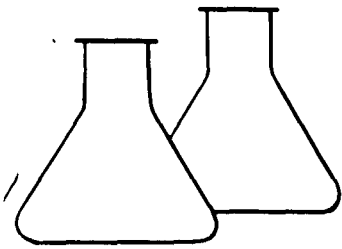
Comments: Jaquez GC El Abandoned Pit 94805

Sample container was not rinsed during analysis due to the large amount of solids present.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ 3'	Date Reported:	03-17-93
Laboratory Number:	4760	Date Sampled:	03-16-93
Sample Matrix:	Soil	Date Received:	03-16-93
Preservative:	Cool	Date Extracted:	03-17-93
Condition:	Cool & Intact	Date Analyzed:	03-17-93
		Analysis Requested:	BTEX

<u>Parameter</u>	<u>Concentration</u> (ug/Kg)	<u>Det.</u> <u>Limit</u> (ug/Kg)
Benzene	24.9	20.0
Toluene	55	26.7
Ethylbenzene	17.3	13.3
p,m-Xylene	69	20.0
o-Xylene	22.8	13.3

<u>SURROGATE RECOVERIES:</u>	<u>Parameter</u>	<u>Percent Recovery</u>
	Bromofluorobenzene	98 %

Method: Method 5030, Purge-and-Trap, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

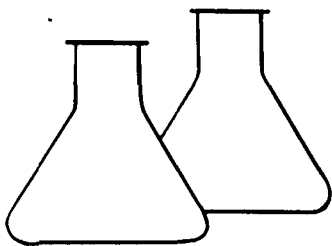
Method 8020, Aromatic Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1, Abandoned Pit, 94805.

Cecilia Chaharling  
Analyst

Margie J. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ GW (4')	Date Reported:	03-17-93
Laboratory Number:	4761	Date Sampled:	03-16-93
Sample Matrix:	Water	Date Received:	03-16-93
Preservative:	HgCl & Cool	Date Analyzed:	03-17-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.4	0.3
Toluene	1.8	0.4
Ethylbenzene	1.2	0.2
p,m-Xylene	8.0	0.3
o-Xylene	2.5	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	110 %
	Bromofluorobenzene	101 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

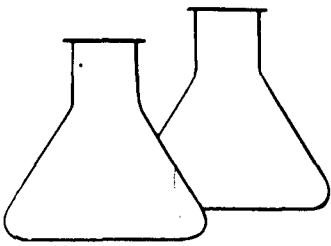
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1, Abandoned Pit, 94805.

Ar Chahar  
Analyst

Mari D Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ 3'	Date Sampled:	03-17-93
Laboratory Number:	4779	Date Received:	03-17-93
Sample Matrix:	Soil	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
----- Total Petroleum Hydrocarbons	----- ND	----- 5.0

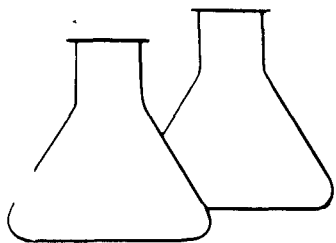
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1 Abandoned Pit  
94805

Steve Felton  
Analyst

Maris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ GW (3.5')	Date Sampled:	03-17-93
Laboratory Number:	4781	Date Received:	03-17-93
Sample Matrix:	Water	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
-----	-----	-----
TPH	ND	0.5

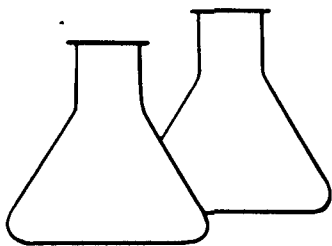
Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Abandoned Pit  
94805

Stik Feltman  
Analyst

Mani Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ GW (3.5')	Date Reported:	03-18-93
Laboratory Number:	4780	Date Sampled:	03-17-93
Sample Matrix:	Water	Date Received:	03-17-93
Preservative:	HgCl and Cool	Date Analyzed:	03-17-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	1.8	0.3
Toluene	2.9	0.5
Ethylbenzene	3.3	0.4
p,m-Xylene	1.6	1.0
o-Xylene	2.4	0.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	109 %
	Bromofluorobenzene	117 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1, Abandoned, 94805.

Al Chaharlung  
Analyst

Yvonne D. Young  
Review

94805

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS											
Aro c.o. 92140		ABANDONED													
Sampler: (Signature)		Chain of Custody Tape No.		No. of Containers	TPH	8PX	(8020)								Remarks
Lora Coddington 95				3/17/93	1	✓									
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix											
T3 @ 3'	3/17/93	0910	4779	SOIL											
T3 @ 6W (3.5')	3/17/93	0915	4780	WATER											
T3 @ 6W (3.5')	3/17/93	0910	4781	WATER											
				Received by: (Signature)		Date		Time		Received by: (Signature)		Date		Time	
				Lora Coddington		3/17/93		1530		Linda Pender		3-17-93		1530	
				Received by: (Signature)						Received by: (Signature)					
				Received by: (Signature)						Received by: (Signature)					

**ENVIROTECH INC.**  
 5796 U.S. Highway 64-3014  
 Farmington, New Mexico 87401  
 (505) 632-0615

~~District I~~  
P.O. Box 1980, Hobbs, NM  
~~District II~~  
P.O. Drawer DD, Artesia, NM 88211  
~~District III~~  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

### PIT REMEDIATION AND CLOSURE REPORT

**Operator:** Amoco Production Company **Telephone:** (505) - 326-9200

**Address:** 200 Amoco Court, Farmington, New Mexico 87401

**Facility Or:** TAQUEZ GC E # 1  
**Well Name**

**Location:** Unit or Qtr/Qtr Sec 0 Sec 6 T29N R9W County SAN JUAN

**Pit Type:** Separator  Dehydrator  Other BLOW PIT

**Land Type:** BLM , State , Fee , Other

**Pit Location:** Pit dimensions: length 30', width 30', depth 1'  
(Attach diagram)

**Reference:** wellhead , other

**Footage from reference:** 50'

**Direction from reference:** 10 Degrees  East North   
of  
 West South

<b>Depth To Ground Water:</b> (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 Points)	<u>20</u>
<b>Wellhead Protection Area:</b> (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes	(20 points)	
	No	(0 points)	<u>0</u>
<b>Distance To Surface Water:</b> (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	
	200 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	<u>20</u>
<b>RANKING SCORE (TOTAL POINTS):</b>			<u>40</u>

Date Remediation Started: \_\_\_\_\_ Date Completed: 10/13/92

Remediation Method: Excavation  Approx. cubic yards NA  
(Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_  
Other CLOSE AS IS

Remediation Location: Onsite  Offsite \_\_\_\_\_  
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: \_\_\_\_\_  
Excavation. NO REMEDIATION NECESSARY.

Ground Water Encountered: No \_\_\_\_\_ Yes  Depth \_\_\_\_\_

Final Pit: Sample location see Attached Documents  
Closure Sampling: MULTIPLE SAMPLES COLLECTED  
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth \_\_\_\_\_  
Sample date 6/22/92 Sample time \_\_\_\_\_  
Sample Results  
Benzene (ppm) \_\_\_\_\_  
Total BTEX (ppm) \_\_\_\_\_  
Field headspace (ppm) \_\_\_\_\_  
TPH \_\_\_\_\_  
Ground Water Sample: Yes  No \_\_\_\_\_ (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 10/13/92  
SIGNATURE B. Shaw  
PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator



FIELD REPORT: SITE ASSESSMENT

JOB No: 92140  
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS & CLOSURE  
CLIENT: AMOCO PRODUCTION COMPANY  
CONTRACTOR: ENVIROTECH, INC.  
EQUIPMENT USED: Backhoe w/ 24" AWP

DATE STARTED: 6/22/92  
DATE FINISHED: 6/22/92  
ENVIRO. SPCLT: EB  
OPERATOR: FW  
ASSISTANT: LI

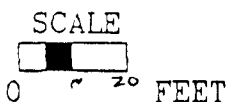
LOCATION: LSE: Jaquez (6c E) WELL: E-71 QD: SW/4 SE/4 (0)  
SEC: 6 TWP: T29N RNG: R29W PM: NMPM CNTY: ST ST: NM PIT: BLOW PIT

LAND USE: Agricultural irrigated pasture + garden

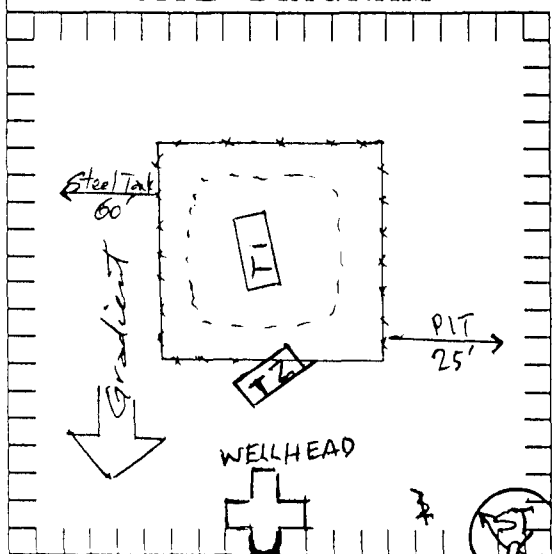
SURFACE CONDITIONS: Earthen pit (30' x 30')

FIELD NOTES & REMARKS: Soil discoloration in BLOW PIT interior from 1' - groundwater depth of 5'. This pit may have been used as the SEP PIT (No SEP on site). T2 dug outside Blow PIT perimeter fence area. Soils discolored at 2' - 5' on groundwater depth.

SAMPLE INVENTORY:		
SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
T(02)	SOIL	HEAD
T(02)	SOIL	TPH/8020
T(02)	WATER	8020 2X
T(02)	WATER	TPH/410.1
T(02)	WATER	8020 2X



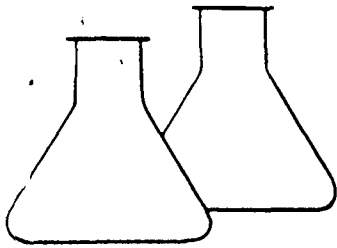
SITE DIAGRAM



TEST HOLE LOGS:

TH#:	SOIL TYPE:	SMPL TYPE:	QVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	QVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	QVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	QVM/TPH
1	GW			2	GW										
2			499	3			11								
3				4											
4				5											
5			357				18								
	GW		210		GW		113								
			5'												

SOIL TYPE: C - Clay, M - Sil, S - Sand, G - Gravel, P - Plasticity: L - None, H - Plastic  
Grading: P - Poor, V - Very



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS


Client:	AMOCO	Project #:	92140
Sample ID:	T-1 @ 2'	Date Reported:	07-24-92
Laboratory Number:	1518	Date Sampled:	06-22-92
Sample Matrix:	Soil	Date Received:	06-22-92
Preservative:	Cool	Date Analyzed:	07-23-92
Condition:	Cool & Intact	Analysis Needed:	TPH

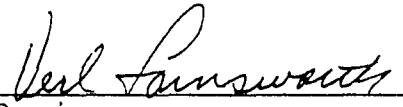
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	68.0	5.0

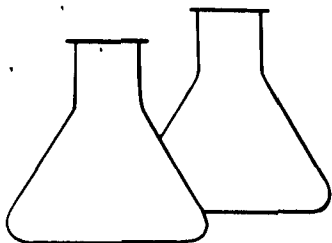
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez E-1 Blow Pit 94338

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 2'	Date Reported:	10-13-92
Laboratory Number:	1518	Date Sampled:	06-22-92
Sample Matrix:	Soil	Date Received:	06-22-92
Preservative:	Cool	Date Extracted:	07-23-92
Condition:	Cool & Intact	Date Analyzed:	10-10-92
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	49.9
Toluene	433	120
Ethylbenzene	39.6	29.9
p,m-Xylene	41.1	39.9
o-Xylene	54	39.9

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	94 %
	Bromfluorobenzene	86 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

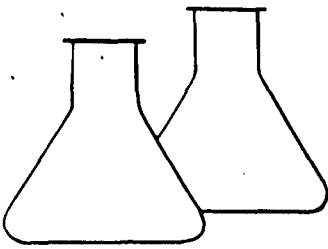
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1---Blow Pit---94338

Al Chabany  
Analyst

Maria Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020  
AROMATIC VOLATILE ORGANICS  
HEADSPACE EXTRACTION

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 2'	Date Reported:	09-23-92
Laboratory Number:	1519	Date Sampled:	06-22-92
Sample Matrix:	Soil	Date Received:	06-22-92
Preservative:	Cool	Date Analyzed:	09-09-92
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	1.6
Toluene	ND	9.6
Ethylbenzene	ND	4.8
p,m-Xylene	20.2	7.2
o-Xylene	4.5	1.6

Method: Method 3810, Headspace, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

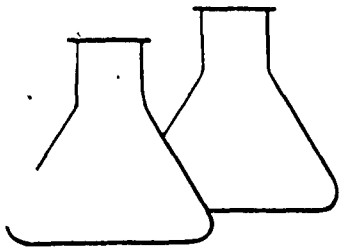
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1---Blow Pit---94338

Al Chahar  
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## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	92140
Sample ID:	T-1 @ GW	Date Reported:	06-25-92
Laboratory Number:	1522	Date Sampled:	06-23-92
Sample Matrix:	Water	Date Received:	06-23-92
Preservative:	Cool	Date Analyzed:	06-24-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
-----	-----	-----
TPH	12.7	10.0

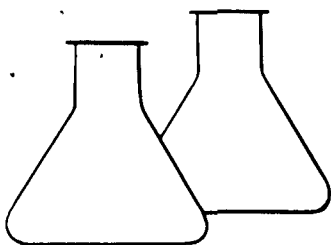
Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez E-1 Blow Pit 94338

*Vanessa Pearson*  
Analyst

*Neil Pearson*  
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## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ GW	Date Reported:	10-01-92
Laboratory Number:	1520	Date Sampled:	06-22-92
Sample Matrix:	Water	Date Received:	06-22-92
Preservative:	HgCl & Cool	Date Analyzed:	09-03-92
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	1.0
Toluene	40.1	7.0
Ethylbenzene	ND	2.5
p,m-Xylene	19.1	4.5
o-Xylene	35.0	3.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	97.5 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

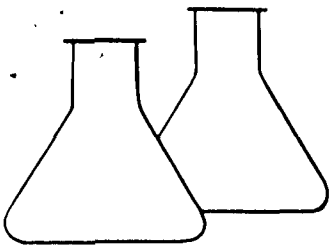
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1---Blow Pit---94338.

Robert M. Young  
Analyst

Morris D. Young  
Review



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## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ GW	Date Reported:	10-01-92
Laboratory Number:	1521	Date Sampled:	06-22-92
Sample Matrix:	Water	Date Received:	06-22-92
Preservative:	HgCl & Cool	Date Analyzed:	09-03-92
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	10.0	1.0
Toluene	35.1	7.0
Ethylbenzene	ND	2.5
p,m-Xylene	24.9	4.5
o-Xylene	33.9	3.0

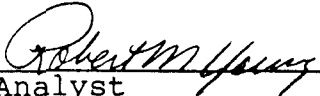
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	96.0 %

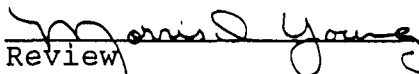
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC E1---Blow Pit---94338.

  
Analyst

  
Review

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CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS		Remarks	Date	Time	
Amoco 92140		Blow Pit JAQUEZ X E I 6c		94338					
Sampler: (Signature) <i>Roy Thomas</i>		Chain of Custody Tape No.		No. of Containers		BETX Head BETX 8220 TOP 418.1	Date	Time	
Sample Identification	Sample Date	Sample Time	Lab Number	Sample Matrix					
TIC 2'	6/22/92	1430	1518	soil	1 ✓				
TIC 2'	6/22/92	1436	1519	soil	1 ✓				
TIC GW	6/22/92	1445	1520	Water	2 ✓				
T2C GW	6/22/92	1345	1521	Water	2 ✓				
T1C GW	6/22/92	1448	1522	Water	1 ✓				
Travel BLK	6/22/92		1523	water	1				
Travel BLK	6/22/92		1524	Soil	1				
Equipment BLK	6/22/92		1525	water	1				
Relinquished by: (Signature) <i>Roy Thomas</i>		Date		Time		Received by: (Signature) <i>[Signature]</i>		Date	
		6/22/92		1600				6.22.92/1600	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date	

ENVIROTECH INC.

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Farmington, New Mexico 87401

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