

Denny S. Felt
DEPUTY OIL & GAS INSPECTOR

JUL 18 1997

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Approved

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Highway 64, NBU 3004, Farmington, NM 87401

505-599-3462

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW/NE, 990 FNL & 1650' FEL

Section 21, T28N, R3W

FORM APPROVED

Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

Jicarilla Cont. # 84

7. If Unit or CA, Agreement Designation

Indian B

8. Well Name and No.

Indian B # 1

9. API Well No.

30-039-07312

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

Rio Arriba, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☒ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Pit Closure
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was plugged and abandoned on September 16, 1996 ~~per the attached reports~~

The separator and dehydrator pits along with the associated landfarms were closed 12/6/96 and 12/12/96 per Jicarilla Environmental Protection Office approval (See attached report). The location was recontoured and reseeded utilizing Jicarilla EPO approved seed in April of 1997.

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14. I hereby certify that the foregoing is true and correct

Signed

Robert A. Winters

Title Sr. Safety & Environ. Spclst

Date

5-19-97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

**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: Phillips Petroleum Company Telephone: 505-599-3462
Address: 5525 Highway 64 Farmington, NM 87401
Facility or Well Name: Indian B #1
Location: Unit or Qtr/Qtr Sec NE Sec 21 T28N R34W County Do Arriba
Fit Type: Separator X Dehydrator Other
Land Type: Range

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Pit Location: (Attach diagram)

Pit dimensions: length 10', width 15', depth 4' - BEFORE EXCAVATION
50' 50 8' - AFTER EXCAVATION

Reference: wellhead X, other _____

Footage from reference: 50

Direction from reference: 45 Degrees X East of North X
_____ of _____
_____ West South _____

Depth To Groundwater:
(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 10

Distance to an Ephemeral Stream
(Downgradient dry wash greater than
one foot in width)

Less than 100 feet (10 points)
Greater than 100 feet (~~0 points~~) 2

Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)

Less than 100 feet (10 points)
Greater than 100 feet (0 points)

Wellhead Protection Area:
Less than 200 feet from a private domestic water source, or: less than 100 feet from all other water sources)

Yes (20 points)
No (0 points)

Distance To Surface Water:
horizontal distance to perennial
cos, ponds, rivers, streams, creeks,
igation canals and ditches)

Less than 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 10

Remediation Started: 11-4-96 Date Completed: 11-7-96Remediation Method: Excavation X
(Check all appropriate sections)Approx. cubic yards 741Landfarmed X

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite Indian B#1 NE Sec 21 T28 N R3W
(i.e. landfarmed onsite,
name and location of
offsite facility)General Description of Remedial Action: Excavation to BedrockGroundwater Encountered: No X Yes _____ Depth NAFinal Pit: Sample location Composite of walls & BtmClosure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths) See Attached field reportsSample depth 12'Sample date 11-7-96 Sample time 1426

Sample Results

Soil: Benzene (ppm) 0.2 Water: Benzene (ppb) NATotal BTEX (ppm) 13.7 Toluene (ppb) NAField Headspace (ppm) 580 579 Ethylbenzene (ppb) NATPH (ppm) 579 580 Total Xylenes (ppb) NAGroundwater Sample: Yes _____ No X (If yes, attach sample results)

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

DATE 11-15-96 PRINTED NAME C. Jack Collins, P.G.SIGNATURE C. Jack Collins AND TITLE Senior Scientist/Hydrogeologist

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: John C. Man DATE: 12-6-96RECEIVED
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DIST. 3

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

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Phillips Petroleum Co</u>		Telephone: <u>505-599-3462</u>
Address: <u>5525 Hwy 64 NBU 3004 Farmington, NM 87401</u>		
Facility or Well Name: <u>INDIAN #B1 separator</u>		
Location: Unit or Qtr/Qtr Sec <u>NE</u> Sec <u>21</u> T28N R3W County <u>Rio Arriba</u>		
Land Type: <u>RANGE</u>		
Date Remediation Started: <u>11-7-96</u>		Date Completed: <u>12-2-96</u>
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>741</u>
Composted _____		RECEIVED MAY 22 1997 OIL CON. DIV. DIST. 3
Other <u>SAMPLED</u>		
Depth To Groundwater: (pts.) <u>10</u>	Final Closure Sampling: Sampling Date: <u>11-26-96</u> Time: <u>12:05 pm</u> <u>12:15 pm</u> Sample Results: <u>PTX</u> → <u>3.8 - 10.8</u> Field Headspace (ppm) <u>0.0m</u> → <u>1330 = 942</u> TPH (ppm) - <u>166</u> Method <u>418.1</u> (ppm) - <u>105</u> Other _____	
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>10</u>		
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE <u>12-3-96</u> PRINTED NAME <u>C. Jack Collins, P.G.</u> SIGNATURE <u>C. Jack Collins</u> AND TITLE <u>Senior Scientist/Hydrogeologist</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>[Signature]</u> DATE: <u>12-6-96</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: Phillips Petroleum Company Telephone: 505-599-3462
Address: 5525 Highway 64 Farmington, NM 87401
Facility or Well Name: Indiana B #1
Location: Unit or Qtr/Qtr Sec NE Sec 21 T 28N R 34W County Rio Arriba
Pit Type: Separator ☐ Dehydrator ☒ Other ☐
Land Type: Range

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Pit Location: (Attach diagram) Pit dimensions: length 10' width 10' depth 4' - BEFORE EXCAVATION
10' 10' 8' - AFTER EXCAVATION
Reference: wellhead ☒ other ☐
Footage from reference: 80'
Direction from reference: 0 Degrees X East North
 of
 West South

Depth To Groundwater: Vertical distance from contaminants to seasonal high water elevation of groundwater)
Less than 50 feet (20 points)
☒ 50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 10

Distance to an Ephemeral Stream Downgradient dry wash greater than 4 feet in width)
Less than 100 feet (10 points)
☒ Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond Downgradient lakes, playas and stock or wildlife watering ponds)
Less than 100 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 10 feet from all other water sources)
Yes (20 points)
No (0 points) 0

Distance To Surface Water: horizontal distance to perennial streams, ponds, rivers, streams, creeks, irrigation canals and ditches)
Less than 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 11-7-96 Date Completed: 11-7-96Remediation Method: Excavation ☒ Approx. cubic yards 30

(Check all appropriate sections)

Landfarming ☒

Insitu Bioremediation _____

Other ☒ SamplingRemediation Location: Onsite ☒ Offsite _____

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

General Description of Remedial Action: Nox Required, CleanPitGroundwater Encountered: No ☒ Yes _____ Depth _____Final Pit: Sample location Surface & 4' as per workplan

Closure Sampling:

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

Sample depth 0 & 4' & 8'Sample date 11-7-96 Sample time 1330

Sample Results

Soil: Benzene (ppm) NA Water: Benzene (ppb) NATotal BTEX (ppm) NA Toluene (ppb) NAField Headspace (ppm) 58 Ethylbenzene (ppb) NATPH (ppm) 58 Total Xylenes (ppb) NAGroundwater 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 11-15-96 PRINTED NAME P. Jack Collins, P.G.SIGNATURE P. Jack Collins AND TITLE Senior Scientist / Hydrogeologist

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

APPROVED: YES ☒ NO _____ (REASON) _____SIGNED: P. Jack Collins DATE: 12-6-96RECEIVED
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JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL RESOURCES MGMT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Phillips Petroleum Co</u>		Telephone: <u>505-599-3462</u>	
Address: <u>5525 Hwy 64 NBU 3004 Farmington, NM 87401</u>			
Facility or Well Name: <u>INDIAN #B1 Dehydrator</u>			
Location: Unit or Qtr/Qtr Sec <u>NE Sec 21 T28N R3W</u> County <u>Rio Arriba</u>			
Land Type: <u>RANGE</u>			
Date Remediation Started: <u>11-7-96</u>		Date Completed: <u>12-2-96</u>	
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>30</u>	
Composted _____			
Other <u>SAMPLED</u>			
Distance To Groundwater: (pts.) <u>10</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>0</u>		Sampling Date: <u>11-26-96</u> Time: <u>12:23</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>		Sample Results:	
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>15.4</u>	
Distance To Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>254</u> Method <u>418.1</u>	
RANKING SCORE (TOTAL POINTS): <u>10</u>		Other _____	

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

DATE 12-3-96 PRINTED NAME C. Jack Collins, P.G.
SIGNATURE C. Jack Collins AND TITLE Senior Scientist/Hydrogeologist

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) _____

SIGNED: _____

DATE: 12/12/96

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ENVIROTECH Inc.5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT NO: _____

C.O.C. NO: _____

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163

PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: PHILLIPS PETROLEUM

CONTRACTOR: ENVIROTECH, INC.

EQUIPMENT USED: Bryan Johnson Cat Backhoe

DATE STARTED: 11-4-96

DATE FINISHED: 11-7-96

ENVIRO. SPCLT: CJC

OPERATOR: Keith

ASSISTANT: _____

LOCATION: LEASE: Indian

WELL: B #1

QD: NE

SEC: 21 TWP: 28N RNG: 3W PM: NM CNTY: R.A. ST: NM PIT: Sep.

LAND USE: Range

SURFACE CONDITIONS: _____

PIT CENTER IS LOCATED APPROXIMATELY 60 FEET NE OF WELLHEAD.

- ① OVM @ 6' 250 ppm
- ② OVM @ 4' 150 ppm
- ③ OVM @ 4' 400 ppm

Pit is 4' deep

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FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
T4 @ 4'	1226	10.10	20	1	29	58

DEPTH TO GROUNDWATER: 75'
 NEAREST WATER SOURCE/TYPE: >1000'
 NEAREST SURFACE WATER: >1000'
 NMOC RANKING SCORE: 10
 NMOC TPH CLOSURE STD: 1000ppm

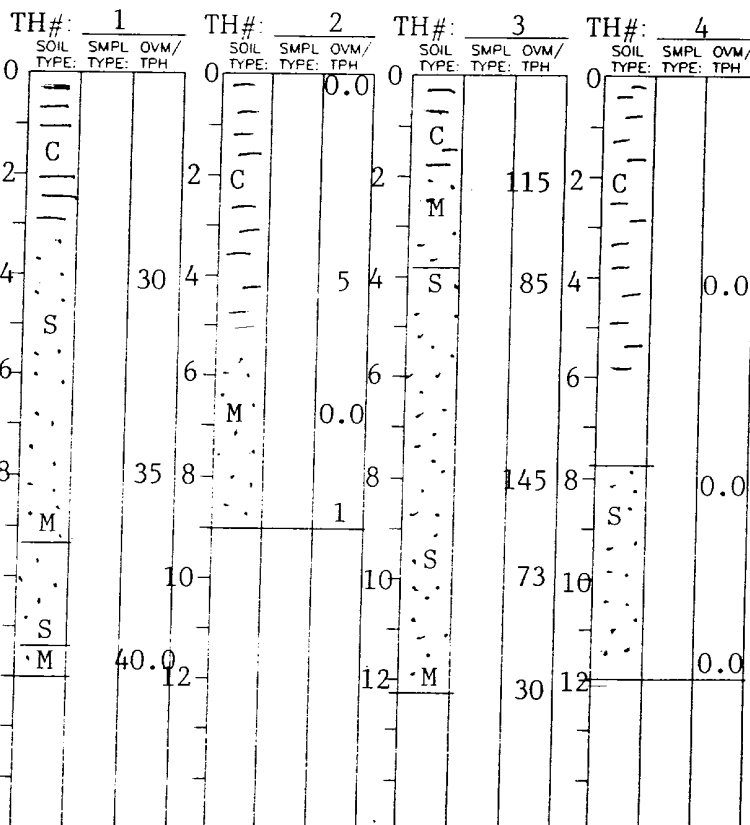
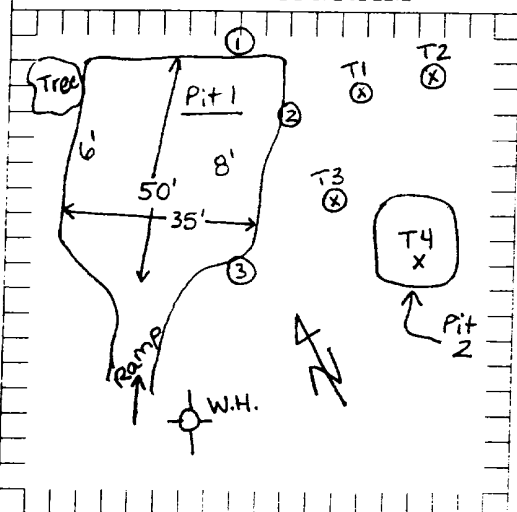
SAMPLE INVENTORY

SMPL ID	SMPL TYPE	LABORATORY ANALYSIS

SCALE

0  None
 FEET

SITE DIAGRAM



SOIL TYPE: C - Clay, M - Silt, S - Sand, G - Gravel Plasticity: L - None, H - Plastic Grading: P - Poorly, W - Well

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11-4-96

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

OIL CON. DIV.
DIST. 3

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 832-0815

PIT NO: _____

C.O.C. NO: 4994

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: Indian WELL #: B #1 PIT: Sep.

DATE STARTED: 11-4-96

DATE FINISHED: 11-7-96

QUAD/UNIT: NE SEC: 21 TWP: 28N RNG: 3W BM: NM CNTY: R.A. ST: NM

ENVIRONMENTAL
SPECIALIST: CJC

QTR/FOOTAGE: _____ CONTRACTOR: Bryan Johnson

SOIL REMEDIATION: EXCAVATION APPROX. 10 FT. x 15 FT. x 7 FT. DEEP.

DISPOSAL FACILITY: Landfarm --On site CUBIC YARDAGE: _____

LAND USE: Range LEASE: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 50 FEET NE FROM WELLHEAD.

DEPTH TO GROUNDWATER: 75' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 10 NMOCB TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: 0 - 5' Clay & silt, tan, dry, no odor.
5 - 7' Clay with sandstone boulders, brown, odor
7-7.5' Sandstone green grey, hard, slight odor

FIELD 418.1 CALCULATIONS

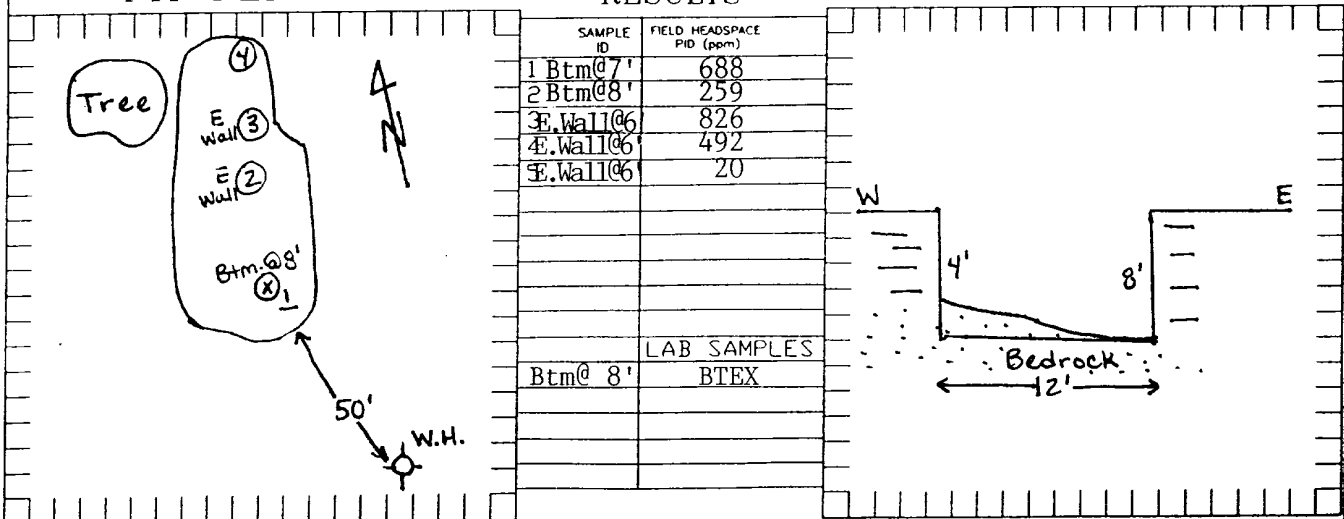
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
Btm @ 7'	1221	10.45	20	10	252	4820
① Btm @ 8'	1222	10.58	20	10	308	5610
② E.Wall @ 6'	1223	10.60	20	1	186	351
③ E.Wall @ 6'	1224	10.43	20	1	132	253
④ E.Wall @ 6'	1225	10.87	20	1	55	101



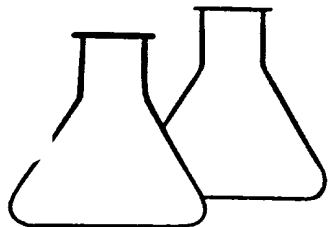
PIT PERIMETER

RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: 6:30 AM ONSITE: 8:30 AM



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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

OIL CON. DIV.
DIST. 3

Client:	Phillips Petroleum Company	Project #:	93163-01
Sample ID:	Btm @ 7.0'	Date Analyzed:	11/04/96
Project Location:	Indian B #1: S21 T28N R3W	Date Reported:	11/13/96
Laboratory Number:	GAC1221	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	4,800	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff
	4,800	4,600	4.2%

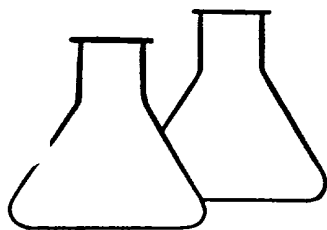
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit

Jack Collins
Analyst

Chaherlang
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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

OIL CON. DIV.
DIST. 3

Client:	Phillips Petroleum Company	Project #:	93163-01
Sample ID:	Btm @ 8.0'	Date Analyzed:	11/04/96
Project Location:	Indian B #1: S21 T28N R3W	Date Reported:	11/13/96
Laboratory Number:	GAC1222	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	5,600	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4,800	4,600	4

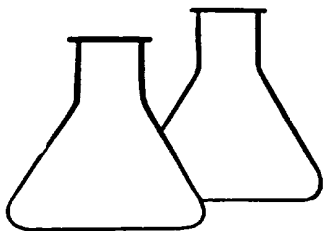
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit

Jack Collins
Analyst

Erin Chabot
Review



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DIST. 3

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client: Phillips Petroleum Company
Sample ID: E.W. @ 6.0'
Project Location: Indian B #1: S21 T28N R3W
Laboratory Number: GAC1223

Project #: 93163-01
Date Analyzed: 11/04/96
Date Reported: 11/13/96
Sample Matrix: Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	350	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4,800	4,600	4

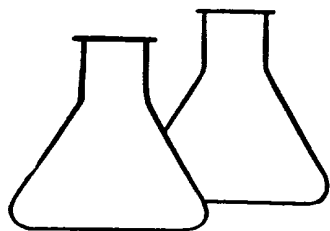
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit

Jack Collins
Analyst

Cherocky
Review



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

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Client:
Sample ID:
Project Location:
Laboratory Number:

Phillips Petroleum Company
E.W. @ 6.0'
Indian B #1: S21 T28N R3W
GAC1224

Project #: 93163-01
Date Analyzed: 11/04/96
Date Reported: 11/13/96
Sample Matrix: Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	250	10

ID = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample
TPH mg/kg

Duplicate
TPH mg/kg

%
*Diff.

4,800

4,600

4

*Administrative Acceptance limits set at 30%.

Method:

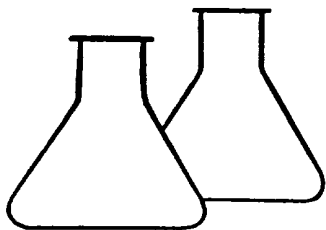
Modified Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and Waste,
USEPA Storet No.4551, 1978

Comments:

Separator Pit

Jack Collins
analyst

Chadwick
Review



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

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OIL CON. DIV.
DIST. 3

Client:
Sample ID:
Project Location:
Laboratory Number:

Phillips Petroleum Company
E.W. @ 6.0'
Indian B #1: S21 T28N R3W
GAC1225

Project #: 93163-01
Date Analyzed: 11/04/96
Date Reported: 11/13/96
Sample Matrix: Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	100	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample
TPH mg/kg

Duplicate
TPH mg/kg

%
*Diff.

4,800

4,600

4

*Administrative Acceptance limits set at 30%.

Method:

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

Comments:

Separator Pit

Jack Collins
Analyst

Lee Chabot
Review

RECEIVED

11-7-96

MAY 22 1997

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

PIT NO: _____

5796 US HWY. 84, FARMINGTON, NM 87401
(505) 632-0815

OIL CON. DIV.

NO: 4997

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: Indian WELL #: B #1 PIT: Sep.

DATE STARTED: 11-4-96

DATE FINISHED: 11-7-96

QUAD/UNIT: NE SEC: 21 TWP: 28N RNG: 3W BM: NM CNTY: R.A ST: NM

ENVIRONMENTAL
SPECIALIST: CJC

QTR/FOOTAGE: _____ CONTRACTOR: Bryan Johnson

SOIL REMEDIATION: EXCAVATION APPROX. 50 FT. x 50 FT. x 6 FT. DEEP.

DISPOSAL FACILITY: Landfarm - On site CUBIC YARDAGE: 500

LAND USE: _____ Range _____ LEASE: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 10 FEET East FROM WELLHEAD.

DEPTH TO GROUNDWATER: >75' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 10 NMOCB TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: 0 - 4' Clay, tan brown
4 - 8' Sand, tan, green, strong odor, dry
8 - 12' Sandstone, green, fine to medium grain, slight odor

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
① E.Wall@6'	1227	10.60	20.0	1	28	53
② S.Wall@8'	1228	10.38	20.0	1	27	52
Pit2Surface	1229	11.45	20.0	1	22	44
③ Btm@ 12'	1230	10.04	20.0	10	383	7629
Pit1Comp.	1231	10.50	20.0	1	302	575

SCALE

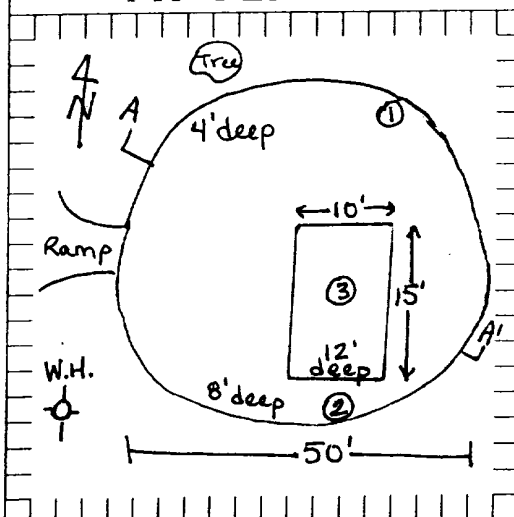


0 None FEET

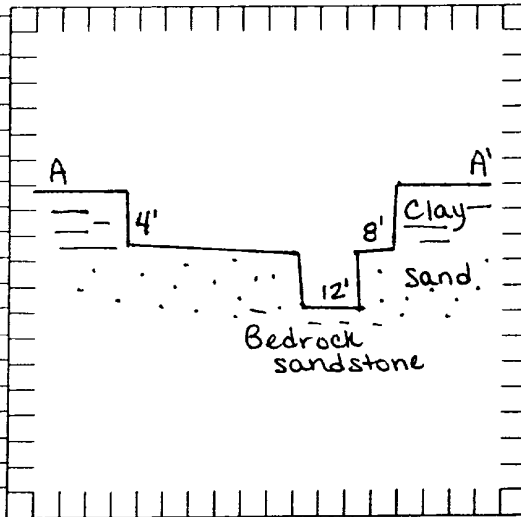
PIT PERIMETER

OVMS RESULTS

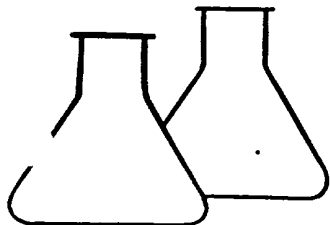
PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1E.Wall@6'	146
2S.Wall@8'	279
3Pit2Comp.	0.0
4Btm@ 12'	1127
5Pit1Comp.	579
LAB SAMPLES	
Pit 1 Comp.	BTEX



TRAVEL NOTES: CALLOUT: 7:00 ONSITE: 8:30



ENVIROTECH LABS

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MAY 22 1997

OIL CON. DIV.
DIST. 3

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum Company	Project #:	93163-01
Sample ID:	E.W @ 6.0'	Date Analyzed:	11/06/96
Project Location:	Indian B #1: S21 T28N R3W	Date Reported:	11/13/96
Laboratory Number:	GAC1227	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	53	10

.D = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample	Duplicate	%
	TPH mg/kg	TPH mg/kg	*Diff.
	4,800	4,600	4

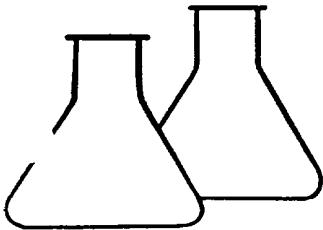
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit

John Collins
Analyst

Chris Chaharuk
Review



ENVIROTECH LABS

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

OIL CON. DIV.
DIST. 3

Client: Phillips Petroleum Company
Sample ID: S.W @ 8.0'
Project Location: Indian B #1: S21 T28N R3W
Laboratory Number: GAC1228

Project #: 93163-01
Date Analyzed: 11/06/96
Date Reported: 11/13/96
Sample Matrix: Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	52	10

.D = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample	Duplicate	%
	TPH mg/kg	TPH mg/kg	*Diff.
	4,800	4,600	4

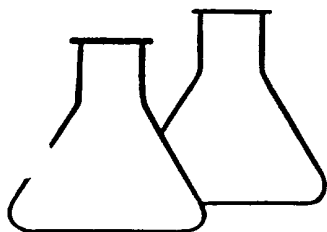
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit

Jack Collins
analyst

Car Shabir
Review



ENVIROTECH LABS

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

OIL CON. DIV.
DIST. 3

Client:	Phillips Petroleum Company	Project #:	93163-01
Sample ID:	Btm @ 12'	Date Analyzed:	11/07/96
Project Location:	Indian B #1: S21 T28N R3W	Date Reported:	11/13/96
Laboratory Number:	GAC1230	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	7,600	100

D = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample _____TPH mg/kg	Duplicate _____TPH mg/kg	% *Diff.
	4,800	4,600	4

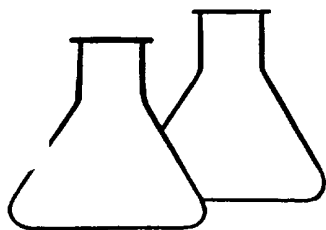
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit

Jack Collins
Analyst

Lee Charney
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

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MAY 22 1997

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

OIL CON. DIV.
DIST. 3

Client:	Phillips Petroleum Company	Project #:	93163-01
Sample ID:	Composite of Walls & Btm.	Date Analyzed:	11/07/96
Project Location:	Indian B #1: S21 T28N R3W	Date Reported:	11/13/96
Laboratory Number:	GAC1231	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	580	10

.D = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4,800	4,600	4

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit

Jack Collins
Analyst

De Shabney
Review

ENVIROTECH LABS

ACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	Pit 1 Composite	Date Reported:	11-08-96
Laboratory Number:	A728	Date Sampled:	11-07-96
Chain of Custody:	4997	Date Received:	11-07-96
Sample Matrix:	Soil	Date Analyzed:	11-08-96
Preservative:	Cool	Date Extracted:	11-08-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----------	--------------------------	--------------------------

Benzene	200	17.5
Toluene	1,340	16.7
Ethylbenzene	636	15.2
p,m-Xylene	8,320	21.6
o-Xylene	2,240	10.4

Total BTEX

12,740 *ppb = 12.74 ppm*

RECEIVED
MAY 22 1997

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
-----------------------	-----------	------------------

Trifluorotoluene	99 %
Bromofluorobenzene	101 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Indian B #1 Pit 1. - *Separation*

John L. Apewu
Analyst

Stacy W. Sandler
Review

AN HUMAN RECORD FORM 578-81

ENVIROTECH Inc.

5798 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT No: _____
C.O.C #: 5015

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163-01
PAGE No: 1 of 1

FACILITY LOCATION: Indian B #1

SOURCE LOCATION: Sec. 21, T 28 N, R 3 W

SOURCE LOCATION: _____

SOURCE LOCATION: _____

FACILITY CLASSIFICATION: _____ PIT TYPE: Sep.

DATE STARTED: 11-26-96
DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: 3

DIMENSIONS: C1: 125'x36'x0.5' C2: 100'x55'x0.5' C3: 55'x25'

VISIBLE OBSERVATIONS: _____

SAMPLING PLAN: 3 5-point composites

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 16 YARDS W FROM WELLHEAD.

DEPTH TO GROUNDWATER: >75'

NEAREST WATER SOURCE/TYPE: >1000'

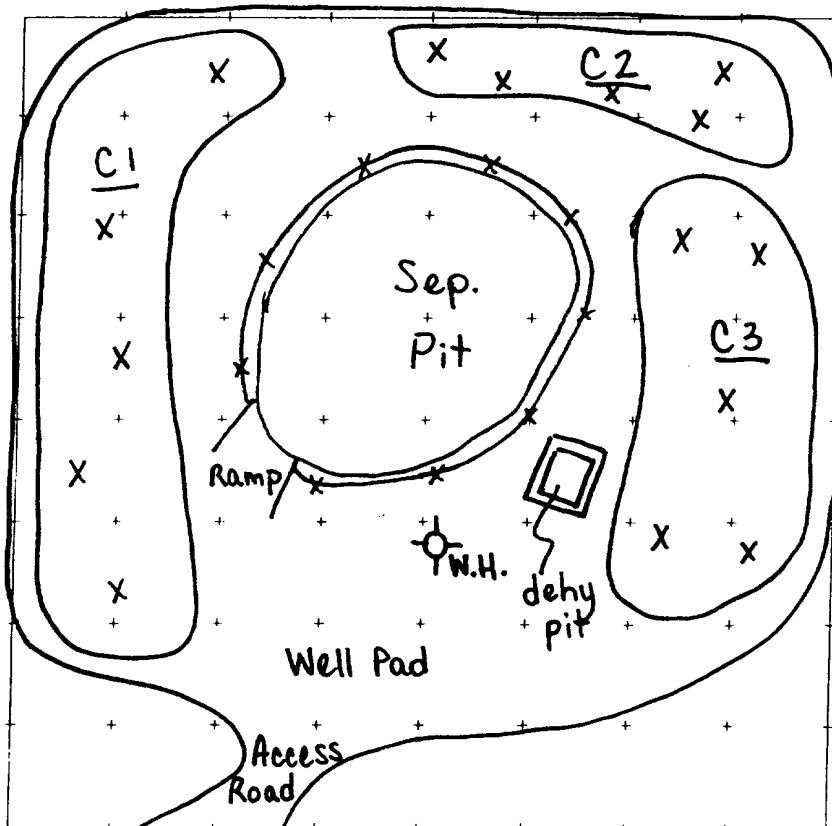
NEAREST SURFACE WATER: >1000'

MAX TPH PER NMOC: 1000 ppm

No. OF 5-POINT
COMPOSITE SAMPLES:
YARDAGE--#
0-200=1
201-400=2
401-1000=③
>1000=5

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	1330
C2	942
C3	1338

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM
	8020	418.1
C1	BTEX	TPH
C2	BTEX	TPH
C3	BTEX	TPH

4

NORTH

+

WELLHEAD

+

SURFACE
FLOW DIR.

+

ESTIMATED
GROUNDWATER
FLOW DIR.

ENVIROTECH LABS

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	*93163-01
Sample ID:	Indian B #1 C1 LF	Date Reported:	12-04-96
Laboratory Number:	A771	Date Sampled:	11-26-96
Chain of Custody No:	5015	Date Received:	11-26-96
Sample Matrix:	Soil	Date Extracted:	12-04-96
Preservative:	Cool	Date Analyzed:	12-04-96
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

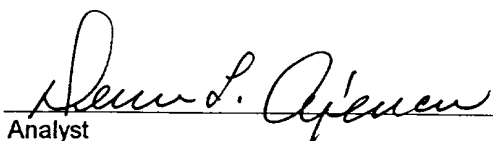
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

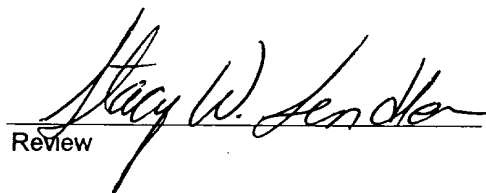
Total Petroleum Hydrocarbons	166	5.0
-------------------------------------	------------	------------

ND = Parameter not detected at the stated detection limit.

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

Comments:


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

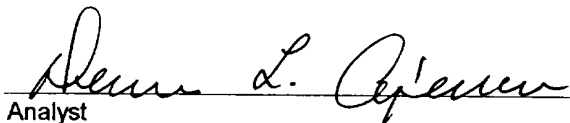
Client:	Phillips Petroleum	Project #:	*93163-01
Sample ID:	Indian B #1 C2 LF	Date Reported:	12-04-96
Laboratory Number:	A772	Date Sampled:	11-26-96
Chain of Custody No:	5015	Date Received:	11-26-96
Sample Matrix:	Soil	Date Extracted:	12-04-96
Preservative:	Cool	Date Analyzed:	12-04-96
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

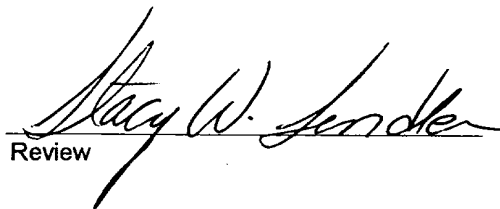
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	105	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments:


Analyst


Review

ENVIROTECH LABS

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163-01
Sample ID:	Indian B #1 C1 LF	Date Reported:	11-27-96
Laboratory Number:	A771	Date Sampled:	11-26-96
Chain of Custody:	5015	Date Received:	11-26-96
Sample Matrix:	Soil	Date Analyzed:	11-27-96
Preservative:	Cool	Date Extracted:	11-27-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	11.7
Toluene	162	11.1
Ethylbenzene	210	10.1
p,m-Xylene	8,200	14.4
o-Xylene	2,260	6.9
Total BTEX	10,830	

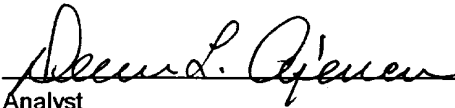
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	99 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments:


Analyst


Review

ENVIROTECH LABS

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163-01
Sample ID:	Indian B #1 C2 LF	Date Reported:	11-27-96
Laboratory Number:	A772	Date Sampled:	11-26-96
Chain of Custody:	5015	Date Received:	11-26-96
Sample Matrix:	Soil	Date Analyzed:	11-27-96
Preservative:	Cool	Date Extracted:	11-27-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	36.3	11.7
Toluene	161	11.2
Ethylbenzene	138	10.2
p,m-Xylene	2,690	14.4
o-Xylene	727	6.9
Total BTEX	3,750	

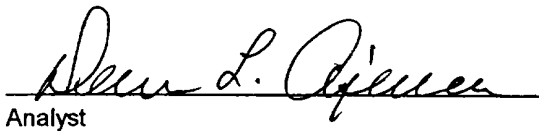
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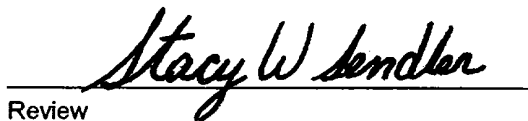
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments:


Analyst


Review

5015

CHAIN OF CUSTODY RECORD

Client/Project Name

Project Location

93163-01

Sampler: (Signature)

Chain of Custody Tape No.

ANALYSIS/PARAMETERS

Phillips Petroleum

C. Jack Collins

No. of Containers

BTEX
FPH 418.1
per CSC

Remarks

Sample No./
IdentificationSample
DateSample
Time

Lab Number

Sample
MatrixFilling B #1
C1 LF

11/26/96

1205

A771

Soil

1

✓

✓

I.B. #1 LF
C2 LF

11/26/96

1215

A772

{

1

✓

✓

I.B. #1 LF
C3 LF

11/26/96

1223

A773

{

1

✓

✓

Filling P #1
LF

11/26/96

1342

A774

Soil

1

✓

✓

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Date Time

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmingington, New Mexico 87401

(505) 632-0615

12/4/96 [SCC attached]

ENVIROTECH Inc.

5796 US HWY. 64. FARMINGTON, NM 87401
(505) 632-0615

PIT NO: _____

C.O.C. NO: _____

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163-01
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: PHILLIPS PETROLEUM
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: Jims Cat Backhoe

DATE STARTED: 11-4-96
DATE FINISHED: 11-6-96
ENVIRO. SPCLT: CJC
OPERATOR: Keith
ASSISTANT: _____

LOCATION: LEASE: Indian WELL: B #1 QD: NE
SEC: 21 TWP: 28N RNG: 3W PM: NM CNTY: R.Arr. ST: NM PIT: Dehy.

LAND USE: Range

SURFACE CONDITIONS: _____

PIT CENTER IS LOCATED APPROXIMATELY 60 FEET E OF WELLHEAD.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
T4 @ 0'	1229	10.40	20	1	22	44
T4 @ 4'	1226	10.10	20	1	29	58

DEPTH TO GROUNDWATER: 11-75'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
NMOC RANKING SCORE: 10
NMOC TPH CLOSURE STD: 1000 ppm

SAMPLE INVENTORY

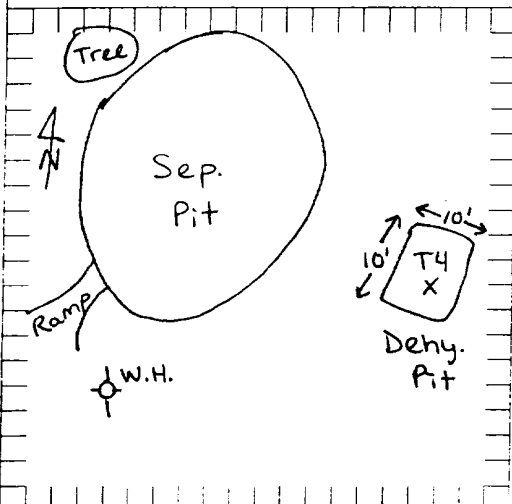
SMPL ID	SMPL TYPE	LABORATORY ANALYSIS
None		

SCALE



0 FEET

SITE DIAGRAM



TH#: 4

SOIL TYPE	SMPL TYPE	OVM/TPH
0		
1		
2		
3		
4	Pit bottom	0.0
5	Clay	
6		
7	Clay	
8		0.0

TH#: _____

SOIL TYPE	SMPL TYPE	OVM/TPH

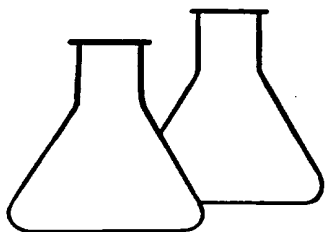
TH#: _____

SOIL TYPE	SMPL TYPE	OVM/TPH

TH#: _____

SOIL TYPE	SMPL TYPE	OVM/TPH

SOIL TYPE: C - Clay, M - Sil. S - Sand, G - Gravel Plasticity: L - None, H - Plastic Grading: P - Poorly, W - Well



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum Company	Project #:	93163-01
Sample ID:	T4 @ 4'	Date Analyzed:	11/06/96
Project Location:	Indian B #1: S21 T28N R3W	Date Reported:	11/13/96
Laboratory Number:	GAC1226	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	57	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4,800	4,600	4

*Administrative Acceptance limits set at 30%.

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

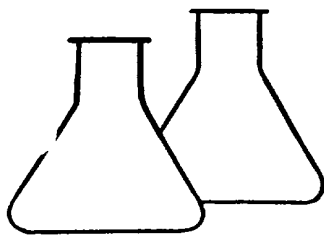
RECEIVED
MAY 22 1997

OIL CON. DIV.
DIST. 3

Comments: Dehyd. Pit

V. J. Hollis
Analyst

C. Chabot
Review



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum Company	Project #:	93163-01
Sample ID:	Surface	Date Analyzed:	11/06/96
Project Location:	Indian B #1: S21 T28N R3W	Date Reported:	11/13/96
Laboratory Number:	GAC1229	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	42	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4,800	4,600	4

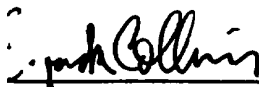
*Administrative Acceptance limits set at 30%.

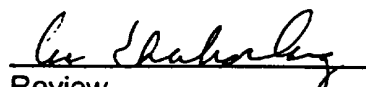
Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

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DATE: 3

Comments: Dehyd. Pit


Analyst


Review

ENVIROTECH Inc.

5798 US HWY. 64, FARMINGTON, NM 87401
(505) 832-0615

PIT No: _____
C.O.C #: 5015

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163-01
PAGE No: 1 of 1

FACILITY LOCATION: Indian B #1
SOURCE LOCATION: Sec. 21, T 28 N, R 3 W
SOURCE LOCATION: _____
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: Sep./ (Dehy.)

DATE STARTED: 11-26-96
DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: 3
DIMENSIONS: C1: 125'x36'x0.5' C2: 100'x55'x0.5' C3: 55'x25'

VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: 3 5-point composites

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 16 YARDS W FROM WELLHEAD.

DEPTH TO GROUNDWATER: >75'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOC: 1000 ppm

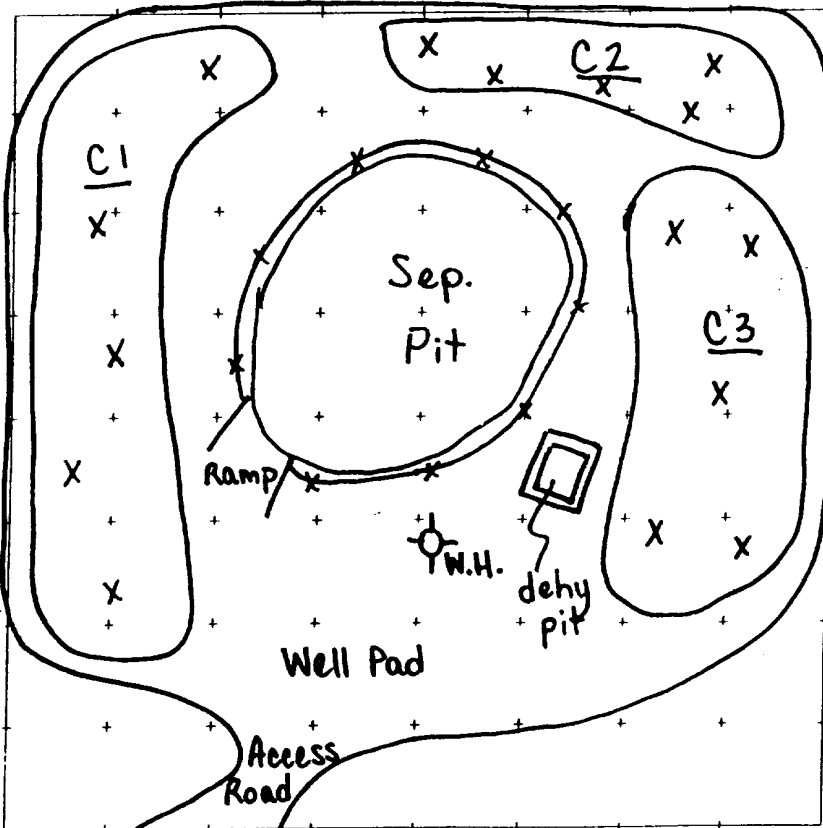
No. OF 5-POINT
COMPOSITE SAMPLES:
YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

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FACILITY DIAGRAM

GRID SCALE:



OVN RESULTS

SAMPLE ID:	FIELD HEADSPACE P10 (ppm)
C1	1330
C2	942
C3	1338

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM: 1
C1	BTEX	TPH
C2	BTEX	TPH
C3	BTEX	TPH

4
NORTH

↓
WELLHEAD

↓
SURFACE FLOW DIR.

↓
ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163-01
Sample ID:	Indian B #1 C3 LF	Date Reported:	12-04-96
Laboratory Number:	A773	Date Sampled:	11-26-96
Chain of Custody No:	5015	Date Received:	11-26-96
Sample Matrix:	Soil	Date Extracted:	12-04-96
Preservative:	Cool	Date Analyzed:	12-04-96
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	254	5.0

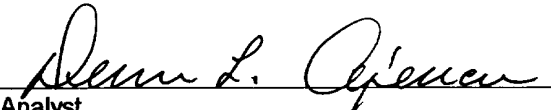
ND = Parameter not detected at the stated detection limit.

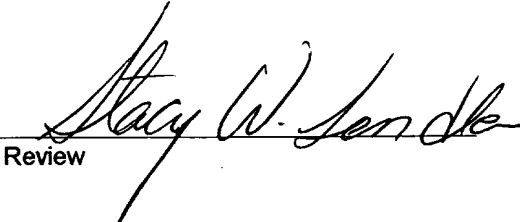
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

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DIST. 3


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RACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163-01
Sample ID:	Indian B #1 C3 LF	Date Reported:	11-27-96
Laboratory Number:	A773	Date Sampled:	11-26-96
Chain of Custody:	5015	Date Received:	11-26-96
Sample Matrix:	Soil	Date Analyzed:	11-27-96
Preservative:	Cool	Date Extracted:	11-27-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	11.7
Toluene	776	11.2
Ethylbenzene	710	10.2
p,m-Xylene	11,100	14.4
o-Xylene	2,780	6.9
Total BTEX	15,400	

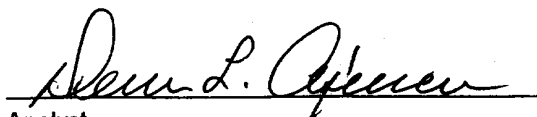
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	103 %
	Bromofluorobenzene	100 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments:


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CHAIN OF CUSTODY RECORD

5015

Client/Project Name Phillips Petroleum			Project Location 93163-01			Chain of Custody Tape No.			ANALYSIS/REMARKS		
Sampler (Signature) <i>C. Jack Collins</i>									RECEIVED MAY 2 2 1997 OIL CON. DIV. DIST. 3		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks					
Field B #1 C1 LF	11/26/96	1205	4771	Soil	1	BTX					
I. B #1 LF	11/26/96	1215	4772	{	1	FPH 418.1 per CSC					
I. B #1 LF	11/26/96	1223	4773		1						
Field B #1 C1 LF	11/26/96	1342	4774	Soil	1						
Relinquished by: (Signature) <i>C. Jack Collins</i>			Date	Time	Received by: (Signature) <i>William J. Oliver</i>			Date	Time		
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						

ENVIROTECH INC.
5796 U.S. Highway 64-3014
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