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District II  
DEPUTY OIL & GAS INSPECTOR  
District III  
1000 P.O. Box 2088  
JAN 16 1998

State of New Mexico  
Minerals and Natural Resources Department  
OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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

Approved

## PIT REMEDIATION AND CLOSURE REPORT

Operator: Phillips Petroleum Company Telephone: (505) 599-3462

Address: 5525 Hwy. 64, NBU 3004, Farmington, NM 87401

Facility Or: San Juan 32 - 7 Unit # 6  
Well Name

Location: Unit or Qtr/Qtr Sec NENE Sec 17 T 31N R 7W County San Juan

Pit Type: Separator X Dehydrator \_\_\_\_\_ Other \_\_\_\_\_

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

Pit Location: Pit dimensions Length 18 ft width 20 ft depth 5 ft  
(Attach diagram)

Reference- wellhead X other \_\_\_\_\_

Footage from reference: 30 ft

Direction from reference: 32 Degrees X East North X  
West South

Depth to Ground Water: 45 ft X Less than 50 feet (20 points)  
(vertical distance from 50 ft to 99 feet (10 points)  
contaminants to seasonal 77 Greater than 100 feet (0 points) 20  
highwater elevation of ground water)

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

Distance to Surface Water: X Less than 200 feet (20 points)  
200 to 1000 feet (0 points)  
Greater than 1000 feet (0 points)

Ranking Score (Total Points): 20

Date Remediation Started: 7/26/93

Dated Completed: 9/17/97

Excavation ☒

Approx. cubic yards 50

Landfarmed ☒

Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Method:

Onsite ☒

Offsite \_\_\_\_\_

(Check all appropriate sections)

General Description of Remedial Action- The pit was excavated to a pit size of 18 ft X 20 ft X 4 ft in depth. Bedrock was incurred at a depth of 4 feet. The excavated pit was sampled for closure purposes and was determined that the walls and bottom were within NMOCD and BLM guidelines. The landfarm was determined to be within guidelines on 9/17/97. Based on this information and the physical location of the pit, there is no risk to human health or environment.

Ground Water Encountered:

No ☒

Yes \_\_\_\_\_

Depth \_\_\_\_\_

Final Pit

attach sample results  
and diagram of sample  
locations and depths

Sample location See pit closure verification field report form

Sample depth 4' below ground level (sample #3A)

Sample date 7/26/94

Sample time NA

Sample Results

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

Total BTEX (PPM) \_\_\_\_\_

Field Headspace (ppm) 1 (sample #3A)

TPH 8 (sample #3A)

Ground Water Sample: Yes

No ☒

(if yes, attach sample results)

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

DATE

PRINTED NAME Bob Wirtanen

and title

Sr. Safety & Environmental Specialist

PIT NO. PA 212

C.O.C. NO:

## FIELD REPORT: CLOSURE VERIFICATION

JCB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: San Juan 32-7 WELL # 6 PIT: Separator  
QUAD/UNIT: A SEC. 17 TWP. 31S RNG. 7W BM NM CNTY SJ ST NM  
QIR/FOOTAGE: CONTRACTOR:

DATE STARTED: \_\_\_\_\_

DATE FINISHED. 7/26/94

ENVIRONMENTAL SPECIALIST: CLG

SOIL REMEDIATION: EXCAVATION APPROX. 18 FT. x 20 FT. x 4 FT. DEEP.

DISPOSAL FACILITY: landfirmed on site CUBIC YARDAGE: 53.3

LAND USE: Range LEASE: SF - 078998

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 30 FEET N 32 E FROM WELLHEAD.

DEPTH TO GROUNDWATER: 45' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOC RANKING SCORE: 20 NMOC TRP CLOSURE STD: 100 PPH

## SOIL AND EXCAVATION DESCRIPTION:

Excavation bottom = rock

Red brown clay with sand; slight, moist; cohesive

Excavation was extended 2' to the south for 3A.

### APPENDIX B 4191 CALCULATIONS

SAMPLE ID	LAB No	WEIGHT (g)	mL. FERTON	DILUTION	READING	CALC. ppm
3 @ 3'	616	10	20	100	59	11800
3A @ 4'	617	10	20	1	4	8

(ND)

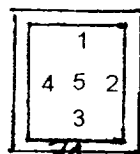
SCALE

10

FEET  
PIT PERIMETER

## OVM RESULTS

## PIT PROFILE



to  
wellhead

separator

[illegible]

LAB SAMPLES



... 31, 189-200

CALL OUT: 7126194

7/26/97

# ENVIROTECH Inc.

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

Permit No. PA 212  
C.O.C. #

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163  
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 32-7 #6 PC

SOURCE LOCATION:

SOURCE LOCATION:

SOURCE LOCATION:

FACILITY CLASSIFICATION: Landfarm

PIT TYPE:

DATE STARTED: 10/3/94  
DATE FINISHED: 10/3/94

ENVIRONMENTAL  
SPECIALIST: CJC/HMB

SOIL REMEDIATION: QUANTITY: 36 Cubic Yards # OF COMP. SAMPLES: 1  
DIMENSIONS: 27 X 48 X .75

VISIBLE OBSERVATIONS: Gray and reddish brown sandy clay; slight odor

SAMPLING PLAN:

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 32 YARDS S FROM WELLHEAD.

DEPTH TO GROUNDWATER: 45'  
NEAREST WATER SOURCE/TYPE: N/A  
NEAREST SURFACE WATER: N/A  
MAX TPH PER NMOC: 100

Reading 1 - 522

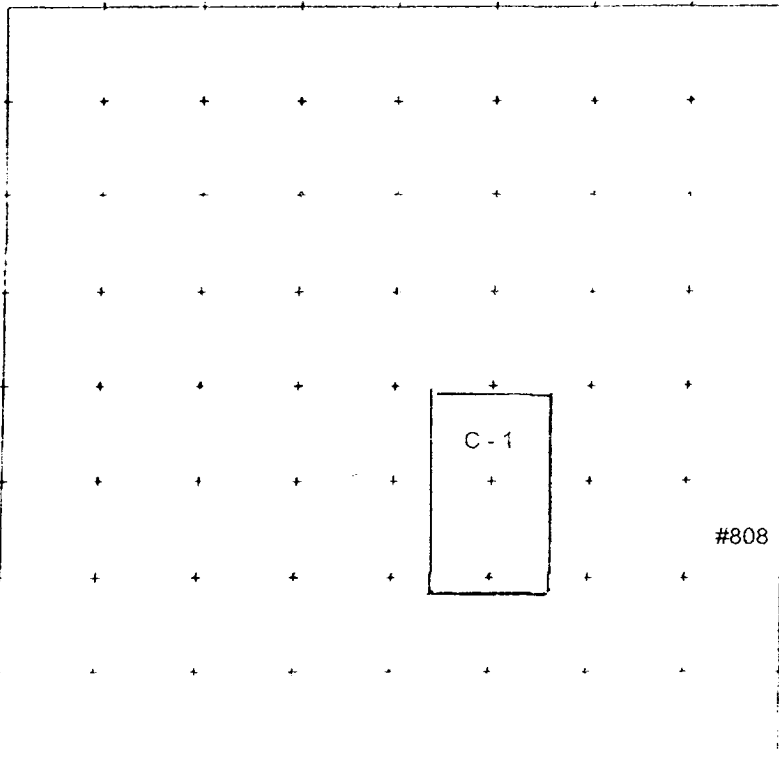
20 ml / 10.35 g X 1 X 552 = 1066.67

20 ml / 10.35 g X 10 X 54 = 1043.47

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

## FACILITY DIAGRAM

GRID SCALE: 1" = 40'

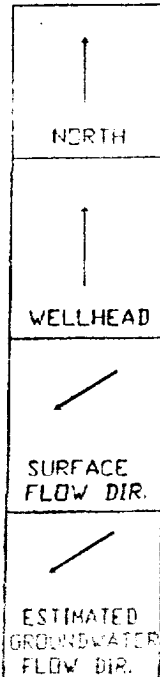


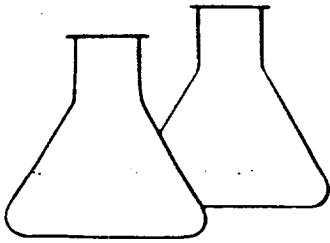
## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PD (ccm)
C-1	17

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS (PPM)
C-1	TPH	1043





# 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	Project #:	93163
Sample ID:	C-1	Date Analyzed:	10-03-94
Project Location:	San Juan 32-7 # 6	Date Reported:	10-03-94
Laboratory Number:	GAC0808	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,043	97


ND = Not Detectable at stated detection limits.

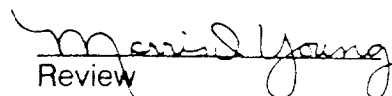
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	60	56	7

\*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 PA212

  
Analyst

  
Review

# ENVIROTECH Inc.

5798 US HWY. 84, FARMINGTON, NM 87401  
(505) 832-0615

PA 212  
C.O.C. # 4198

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No. 93163  
PAGE No. 1 of 1

FACILITY LOCATION: San Juan 32-7 #6  
SOURCE LOCATION: Phillips Petroleum Co.  
SOURCE LOCATION:  
SOURCE LOCATION:  
FACILITY CLASSIFICATION: Landfarm

DATE STARTED: 5/12/95  
DATE FINISHED:  
ENVIRONMENTAL  
SPECIALIST: CJC

PH TYPE: Sep

SOIL REMEDIATION: QUANTITY: 18 yards # OF COMP. SAMPLES: 1  
DIMENSIONS: 48' X 20' X 0.5'  
VISIBLE OBSERVATIONS:  
SAMPLING PLAN:

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 30 YARDS S FROM WELLHEAD.

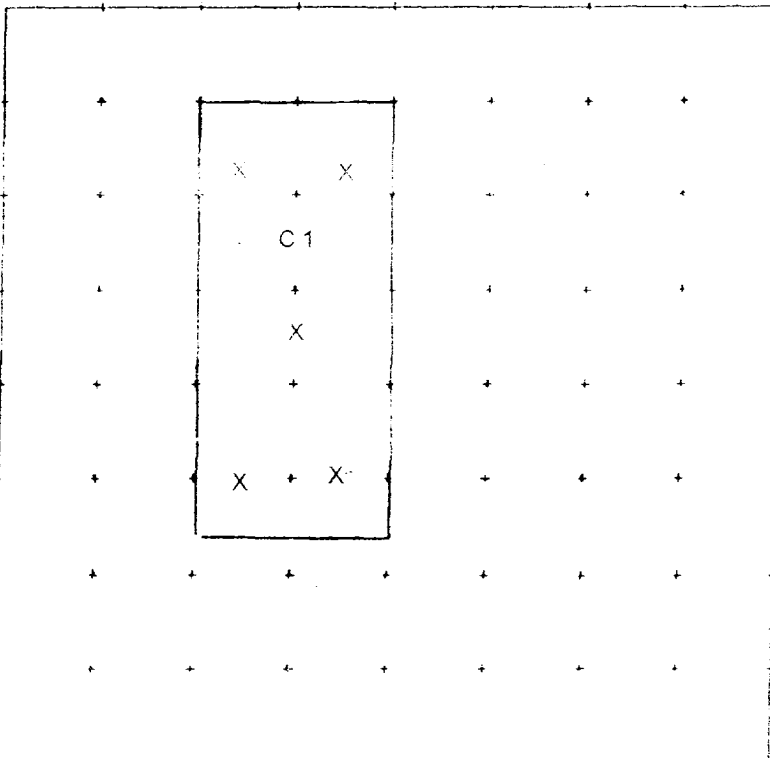
DEPTH TO GROUNDWATER: > 100'  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMDC: 5000

OK to close

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

## FACILITY DIAGRAM

GRID SCALE: 10'

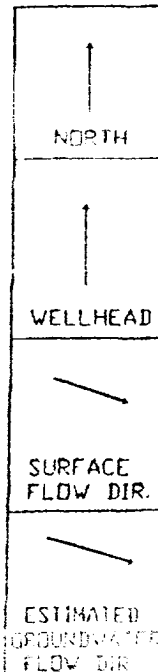


## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PHD (ppm)
C1	40

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
C1	TPH	140



# ENVIROTECH Inc.

5700 US HWY 84, FARMINGTON, NM 87401  
(505) 632-0815

PIT No. PA 212  
C.O.C. # 4342

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No. 93163  
PAGE No. 1 of 1

FACILITY LOCATION: San Juan 32-7 # 6 PC Sec 17 T 31N R 7W SJS NM  
SOURCE LOCATION:  
SOURCE LOCATION:  
SOURCE LOCATION:  
FACILITY CLASSIFICATION: On site landfarm PIT TYPE separator

DATE STARTED: 8-16-95  
DATE FINISHED: 8-16-95

ENVIRONMENTAL  
SPECIALIST: HMB

SOIL REMEDIATION: QUANTITY: 42 Cubic yards # OF COMP. SAMPLES: 1  
DIMENSIONS: 27' X 57' X 8'  
VISIBLE OBSERVATIONS: Deep plowed, huge clods.  
SAMPLING PLAN:

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 36 YARDS S FROM WELLHEAD.

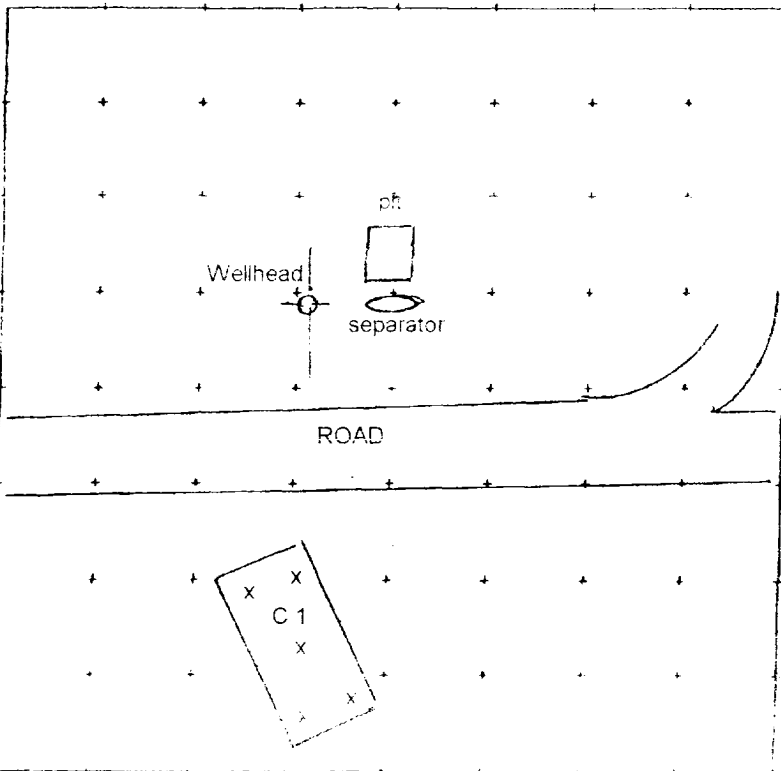
DEPTH TO GROUNDWATER: 45'  
NEAREST WATER SOURCE/TYPE: >1000'  
NEAREST SURFACE WATER: >1000'  
MAX TPH PER NMDC: 100 TPH

Well plowed; dry  
No petroleum odor.

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

## FACILITY DIAGRAM

GRID SCALE

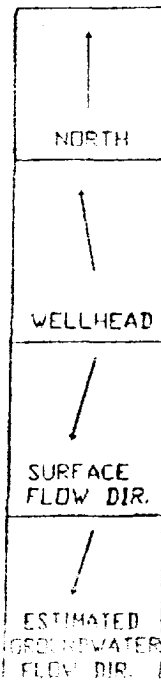


## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
C1	11.8 ppm

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS (PPM)
C1	TPH	144



# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS


Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 32-7 #6 F.PC C1	Date Reported:	08-18-95
Laboratory Number:	8806	Date Sampled:	08-16-95
Chain of Custody No:	4342	Date Received:	08-16-95
Sample Matrix:	Soil	Date Extracted:	08-17-95
Preservative:	Cool	Date Analyzed:	08-18-95
Condition:	Cool and Intact	Analysis Needed:	TPH

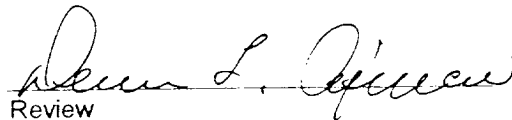
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	144	10

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: PA212. Various Landfarms.

  
Analyst

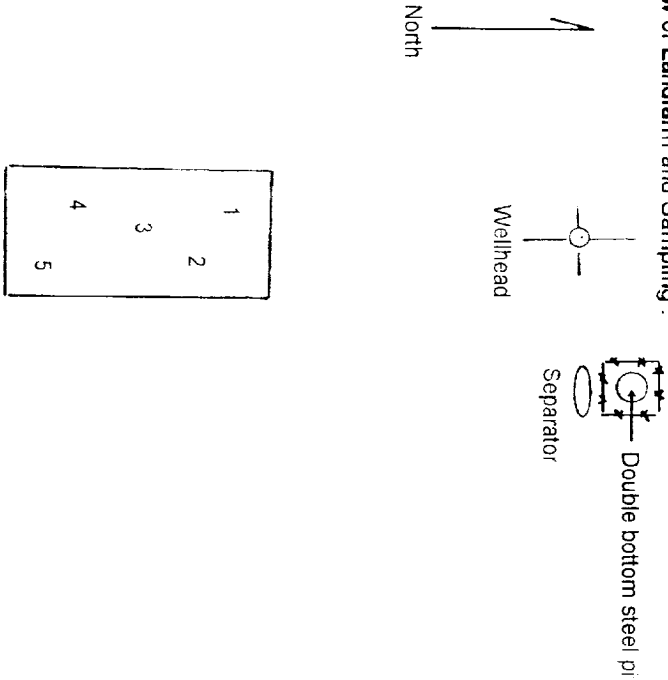
  
Review



Client : Phillips Petroleum

Date Started : 17 September 1997

Date Completed : 17 September 1997

Location : San Juan 32-7 # 6			Overview of Landfarm and Sampling :	
Quad : "A"      Section : 17				
Township: 31 - N      Range: 7 - W				
Pit : Separator				
Reference : 100 ft South of wellhead				
Size : 30'X60'X0.75' deep				
Yds : 50				
One-5 - Point Composite				
Depth to Groundwater : 45 feet			NMOCD Ranking Score : 20	
Nearest Surface Water : >1000 feet			TPH Closure Standard : 100 ppm	
Nearest Water Source : >1000 feet				
Comments:				
Soil is moist, brown, clay silt, dry, and well plowed.				
NO hydrocarbon staining or odor found throughout landfarm.				
Sample # 1, sent to IML for TPH 418.1 analysis.				

## Phillips Petroleum


### Case Narrative

On September 17, 1997, one soil sample was submitted to Inter-Mountain Laboratories - Farmington for analysis. The sample was received cool and intact. Analysis for Total Petroleum Hydrocarbons (TPH) were performed on the sample as per the accompanying Chain of Custody # 50352.

The sample was extracted by Method 3550, "Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids", with 1,1,2-trichloro 1,2,2-trifluoroethane (Freon) as the extraction solvent. Analysis was by Method 418.1, "Total Recoverable Petroleum Hydrocarbons", using a Buck Scientific Infrared Spectrophotometer..

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The method used in the analysis of the sample reported herein are found in Test Methods for Evaluation of Solid Waste, SW-846, USEPA, 1986 and Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,  
  
Sharon Williams  
Organic Analyst

**TOTAL PETROLEUM HYDROCARBONS**  
**EPA METHOD 418.1**

Client: **Phillips Petroleum**  
Project: San Juan 32-7 #6  
Matrix: Soil  
Condition: Intact/Cool

Date Reported: 09/19/97  
Date Sampled: 09/17/97  
Date Received: 09/17/97  
Date Extracted: 09/16/97  
Date Analyzed: 09/18/97

Sample ID	Lab ID	Result mg/kg	Detection - Limit mg/kg
SJn 32-7 #6 LF	0397G02059	ND	19.6

ND - Analyte not detected at stated detection level.

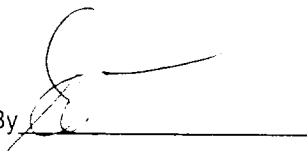
**Method 418.1:**

Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of  
Water and Waste, 1978.

**Method 3550:**

Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds  
from Solids, USEPA SW-846, Rev. 1, July 1992.

Reported By



Reviewed By





## CHAIN OF CUSTODY RECORD

[illegible]