

District I *Jenny E. Faust*
P.O. Box 1980, Hobbs, NM
District II **DEPUTY OIL & GAS INSPECTOR**
P.O. Drawer DD, Artesia, NM 88211

State of New Mexico

Energy, Minerals and Natural Resources Department

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

District III *APR 08 1997*
1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: Phillips Petroleum Company Telephone: 505-599-3400
Address: 5525 Hwy. 64, NBU 3004, Farmington, NM 87401
Facility Or: San Juan 29-5 Unit #58
Well Name: N
Location: Unit or Qtr/Qtr Sec SESW Sec 30 T 29N R 5W County Rio Arriba
Pit Type: Separator X Dehydrator Other
Land Type: BLM X State Fee Other

Pit Location: (Attach diagram) Pit dimensions: Length 18' width 18' depth 7'
Reference: wellhead X other
Footage from reference: 45'
Direction from reference: Degrees East North
of West South X

Depth to Ground Water: 40' X Less than 50 feet (20 points)
vertical distance from 50 ft to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 points) 20
groundwater elevation of
ground water)

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

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

P:\pits\PTCFRM.WK3

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 6/15/94 Dated Completed: 4/6/95

Excavation X Approx. cubic yards 62

Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Method: Onsite X Offsite _____
(Check all appropriate sections)

General Description of Remedial Action: Based on the initial assessment soils were excavated to a depth of 3.5 feet below the original pit bottom. The soils were landfarmed on location. The excavation tested clean on 8/12/94. The landfarm tested clean on 4/6/95. The landfarmed soils were then used to fill the excavation.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Individual samples were collected from each wall and the bottom of the excavation.

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

Sample depth 7ft from surface.

Sample date 8/12/94 Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (PPM) _____

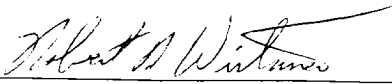
Field Headspace (ppm) 9.9

TPH 24

Ground Water Sample: Yes _____ No X (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 2-14-97 PRINTED NAME Bob Wirtanen

SIGNATURE  and TITLE Sr. Safety & Environmental Specialist

COPY

ENVIROTECH Inc.

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

PIT NO: PA125

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: Case Extend-A-Dig

DATE STARTED: _____
DATE FINISHED: 5-2-94
ENVIRO. SECT: REO
OPERATOR: Cimarron
ASSISTANT: K.O.

LOCATION: LEASE: San Juan 29-5 WELL: #58 QD: 800'S. 1500'W. (N)
SEC: 30 TWP: 29N RNG: 5W PM: NM CNTY: R.A. ST: NM PIT: Sep

LAND USE: Range LSE# SF 079851

SURFACE CONDITIONS: Dry earthen pit--no surface stain-- approx. 20'x20'

PIT CENTER IS LOCATED APPROXIMATELY 45 FEET South OF WELLHEAD.

CLOSURE STD: 100ppm

RANKING SCORE: 20

0-2 Ft: Black silty clay

3 Ft: Moist, brown, silty sand--no odor.

GAC#436: 3x2=6 ppm

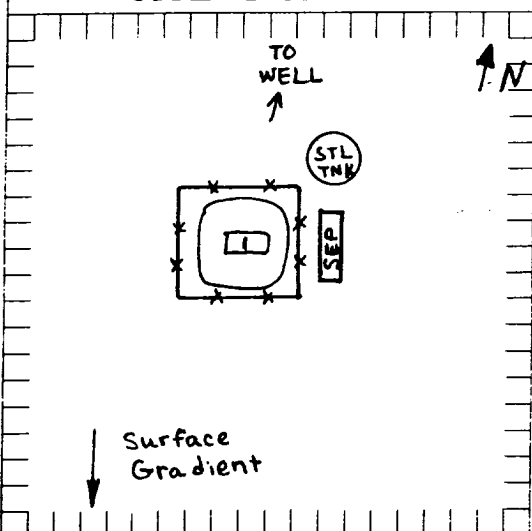
SAMPLE INVENTORY		
SMPL ID	SMPL TYPE	LABORATORY ANALYSIS
T1 @ 6.5'	Soil	6 ppm

SCALE



FEET

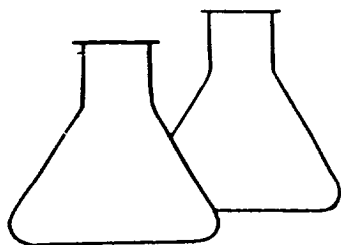
SITE DIAGRAM



Recommend landfarm top 2' and close pit.

TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH
1				1				1				1			
2				2				2				2			
3				3				3				3			
4				4				4				4			
5				5				5				5			
6				6				6				6			
7				7				7				7			
8				8				8				8			
9				9				9				9			
10				10				10				10			
11				11				11				11			
12				12				12				12			
13				13				13				13			
14				14				14				14			
15				15				15				15			

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



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T1 @ 6.5'	Date Analyzed:	5-2-94
Project Location:	San Juan 29-5 #58	Date Reported:	5-2-94
Laboratory Number:	GAC0436	Sample Matrix:	Soil

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

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	750	820	9

*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

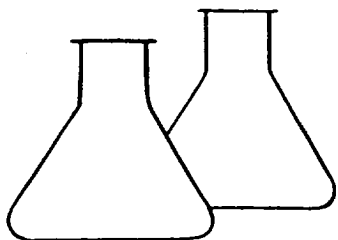
Comments: Separator Pit PA125

R. E. O'Neil
Analyst

Morris D. Young
Review

ON SITE: 6/15/94

COPY



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	5 @ 8'	Date Analyzed:	6-15-94
Project Location:	San Juan 29-5 #58	Date Reported:	6-20-94
Laboratory Number:	GAC0550	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	88	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	11.000	12.600	14

*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 PA125

Tom Acen
Analyst

Married Young
Review

COPY

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

PIT NO: PA125

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 832-0615

C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-5 WELL #: 58 PIT: Sep

QUAD/UNIT: N SEC: 30 TWP: 29N RNG: 5W BM: NM CNTY: R.A. ST: NM

QTR/FOOTAGE: 300'S 1500'W CONTRACTOR: Cimarron

DATE STARTED: _____
DATE FINISHED: 12 Aug. 94

ENVIRONMENTAL
SPECIALIST: FM

SOIL REMEDIATION: EXCAVATION APPROX. 18 FT. x 18 FT. x 7 FT. DEEP.

DISPOSAL FACILITY: Land Farm-- on site CUBIC YARDAGE: _____

LAND USE: Range LEASE: SF-079851

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 45 FEET South FROM WELLHEAD.

DEPTH TO GROUNDWATER: 40 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMDCD RANKING SCORE: 20 NMDCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: Soil is yellow-brown, moist, silty sand to clayey sand

NO odor

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5 @ 7'	GAC657	10	20	1	12	24

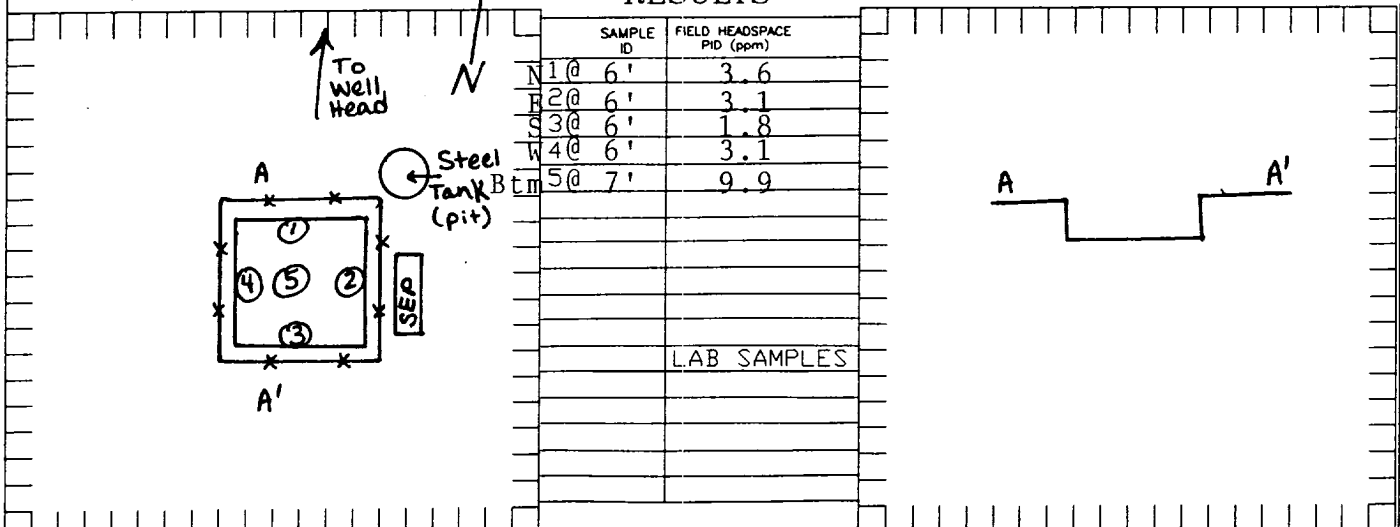
1cm=10'
SCALE



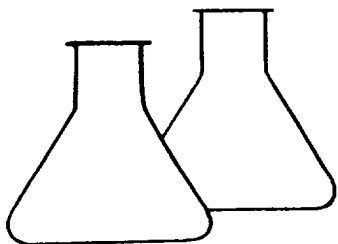
FEET
PIT PERIMETER

OVM
RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: _____



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	5 @ 7'	Date Analyzed:	8-12-94
Project Location:	San Juan 29-5 #58	Date Reported:	8-12-94
Laboratory Number:	GAC0657	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	24	10

ND = Not Detectable at stated detection limits.

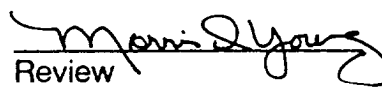
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	11,000	12,600	14

*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 PA125


Analyst


Review

ENVIROTECH Inc.

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

PIT No: PA125
C.O.C #: 3868 *

Sample #8

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-5 #58 Elev. 6462 GL
SOURCE LOCATION: SF-079851 800 S 1500 N
SOURCE LOCATION: Sec. 30 T29N R5W N.M.P.M.
SOURCE LOCATION: Rio Arriba County N.M.
FACILITY CLASSIFICATION: _____ PIT TYPE: Sep.

DATE STARTED: 8-9-94
DATE FINISHED: 8-9-94
ENVIRONMENTAL SPECIALIST: PV

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: 1
DIMENSIONS: 39'L x 25'W x 12"
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: Sampled from 5 points

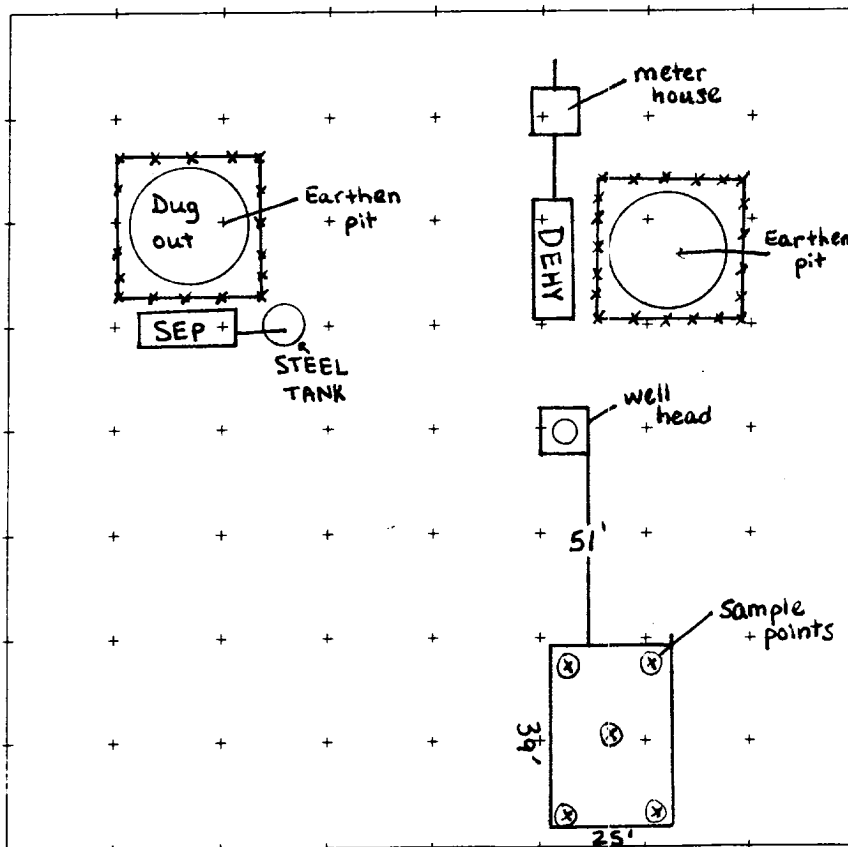
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE/TYPE:
NEAREST SURFACE WATER:
MAX TPH PER NMOC:

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

FACILITY DIAGRAM

GRID SCALE:

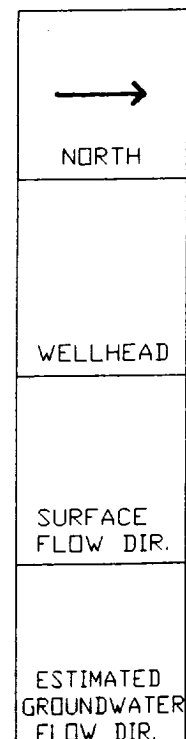


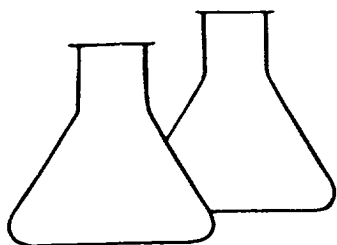
OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
#8	OVM 55.1
TPH	418.1
Time	1204

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:





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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETRO	Project #:	93163
Sample ID:	SJ 29-5 # 58	Date Sampled:	08-10-94
Laboratory Number:	7799	Date Received:	08-10-94
Sample Matrix:	Soil	Date Analyzed:	08-12-94
Preservative:	Cool	Date Reported:	08-12-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	870	30.0

ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: RIO ARRIBA COUNTY NM

Ray L. Griffin
Analyst

Maris D. Young
Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location			ANALYSIS/PARAMETERS									
Sample: (Signature)			Chain of Custody Tape No.			Remarks									
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TP #	BTex	8020							
S. J. 29-6 #87	8/9/94	1020	7797	Soil	1	✓								Landfarm Sample	
S. J. 29-6 #81	8/9/94	1115	7798	Soil	2	✓	✓							Landfarm Sample	
S. J. 29-6 #58	8/9/94	1204	7799	Soil	1	✓								Landfarm Sample	
S. J. 29-6 #100	8/9/94	1254	7800	Soil	2	✓	✓							Landfarm Sample	
S. J. 29-6 #97	8/9/94	1336	7801	Soil	1	✓								Landfarm Sample	
S. J. 29-6 #85	8/9/94	1413	7802	Soil	1	✓								Landfarm Sample	
S. J. 29-6 #74A	8/9/94	1511	7803	Soil	1	✓								Landfarm Sample	
Initiated by: (Signature)					Date	Time	Received by: (Signature)					Date	Time		
Philip Velazquez					8/10/94	0733	Pat Hall					8/10/94	1400		
Relinquished by: (Signature)					Received by: (Signature)										
Relinquished by: (Signature)					Received by: (Signature)										

ENVIROTECH INC.

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Farmingington, New Mexico 87401

(505) 632-0615

ENVIROTECH Inc.

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

PIT No: PA 125
C.O.C #: _____

FIELD REPORT REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FIELD LOCATION: San Juan 29-5, # 38
DATE STARTED: 10/13/94
DATE FINISHED: 10/13/94
ENVIRONMENTAL SPECIALIST: CSC

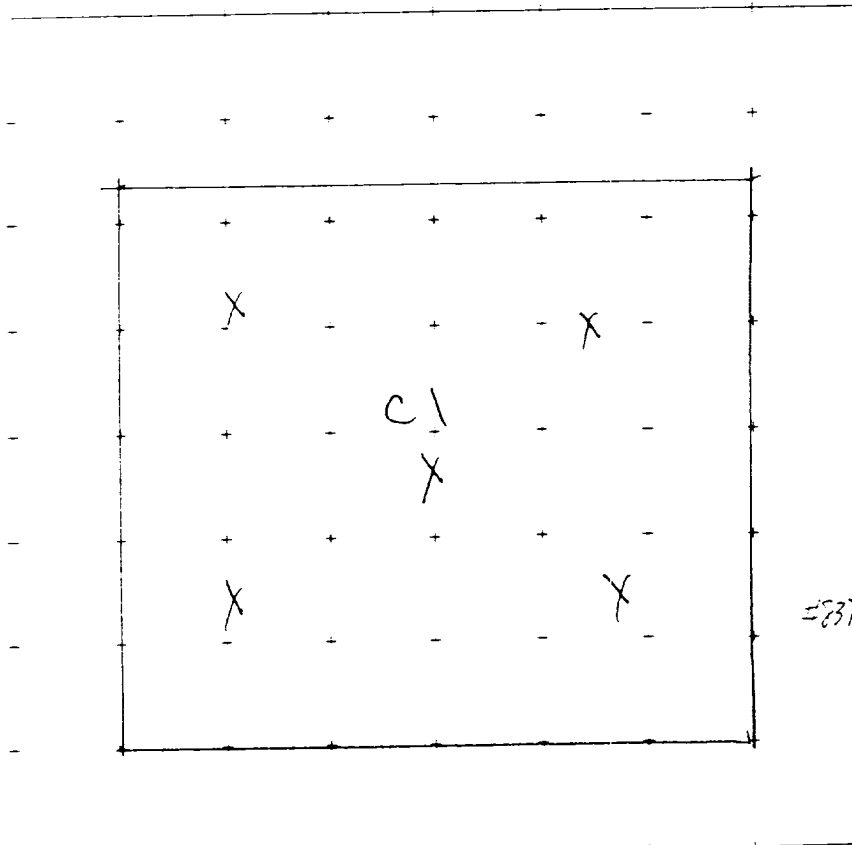
SOIL REMEDIATION: QUANTITY: 37 yds # OF COMP. SAMPLES: 1
DIMENSIONS: 30 x 33 x 1
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 38 YARDS W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 40
NEAREST WATER SOURCE/TYPE: _____
NEAREST SURFACE WATER: _____
MAX TPH PER NMCD: 100
No. OF S-POINT: #837
COMPOSITE SAMPLES: CI
CAPTURE: 20m² x 1 x 94 = 187
10.07g
-200=1
20-400=2
401-1000=3
1000=5

FACILITY DIAGRAM

GRID SCALE 1" = 10'



OVN RESULTS

SAMPLE ID:	FIELD HEADSPACE PD (ppm)
CI	216

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
CI	TPH	187

4

NORTH

A

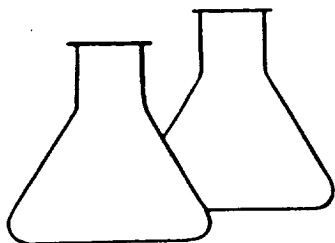
WELLHEAD

A

SURFACE FLOW DIR.

A

ESTIMATED GROUNDWATER FLOW DIR.



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	C1-LANDFARM	Date Analyzed:	10-13-94
Project Location:	San Juan 29-5 # 58	Date Reported:	10-17-94
Laboratory Number:	GAC0837	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	187	10

ND = Not Detectable at stated detection limits.

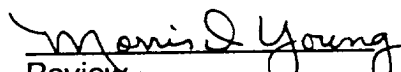
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	98 *	96	1

*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 PA125


Analyst


Review

ENVIROTECH Inc

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(505) 632-0615

PT No: PA125
CIC #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

Job No 93163
Page No: 1 of 1

FACILITY LOCATION: San Juan 29-5 # 58 DATE STARTED: 4-6-95
SOURCE LOCATION: SEC 30 29N R 5W DATE FINISHED: 4-6-95
SOURCE LOCATION: _____ ENVIRONMENTAL SPECIALIST: CX
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: Landfill PT TYPE: _____

SOIL REMEDIATION QUANTITY: _____ = OF COMP SAMPLES: 1
DIMENSIONS: 21' x 30' x .75
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

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

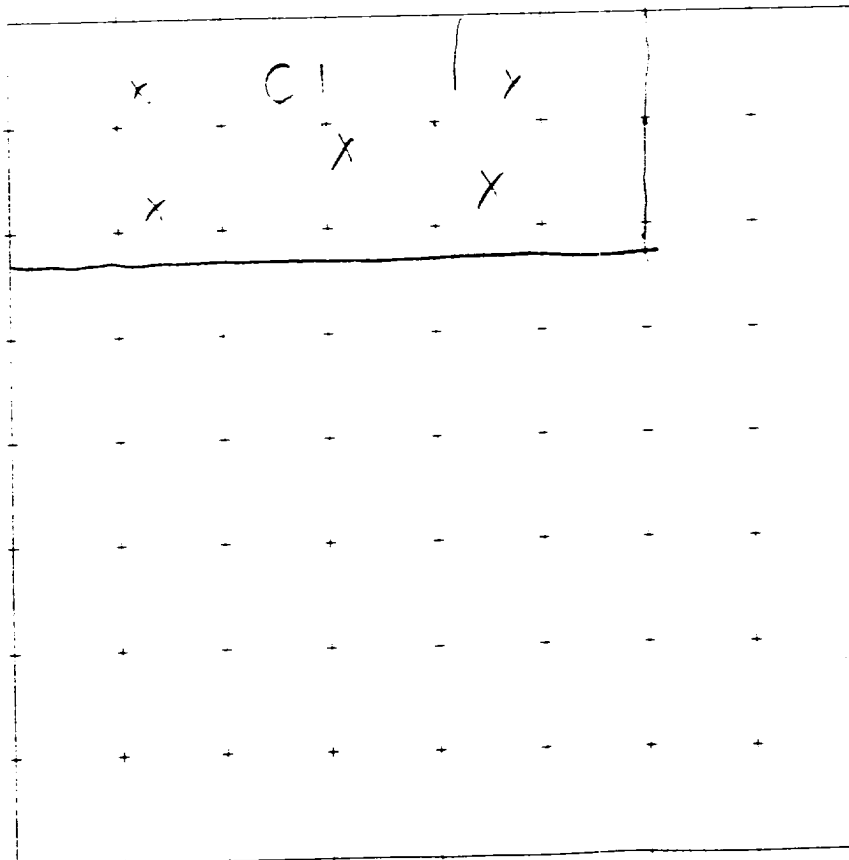
DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE TYPE:
NEAREST SURFACE WATER:
MAY TRF REF NMDCI

NO. OF 5-POINT
COMPOSITE SAMPLES
SPACING--#
1-300=1
301-400=2
401-1000=3
1000=5

(1) 500

FACILITY DIAGRAM

GRID SCALE 5'



COM RESULTS

SAMPLE FIELD HEADSPACE
ID: _____

C1 5.0

LAB RESULTS

SAMPLE ANALYSIS RESULTS
ID: _____

C1 TRH 57

4

NORTH

4

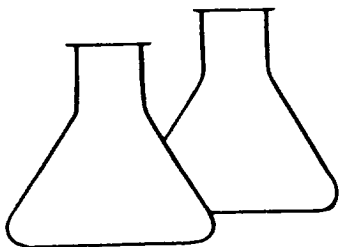
WELLHEAD

↓

SURFACE
FLOW DIR.

↓

ESTIMATED
GROUNDWATER
FLOW DIR.



ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

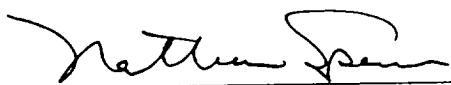
Client:	Phillips	Project #:	93163
Sample ID:	29-5 #58	Date Reported:	04-13-95
Laboratory Number:	8337	Date Sampled:	04-06-95
Chain of Custody No:	4150	Date Received:	04-06-95
Sample Matrix:	Soil	Date Extracted:	04-12-95
Preservative:	Cool	Date Analyzed:	04-12-95
Condition:	Cool and Intact	Analysis Needed:	TPH

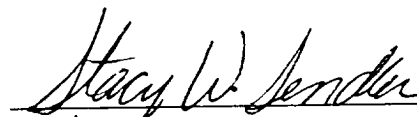
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	56.9	10.0

ND = Parameter not detected at the stated detection limit.

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

Comments:


Analyst


Review