

District I
Henry E. Frost
P.O. Box 1980, Hobbs, NM
District II
DEPUTY OIL & GAS INSPECTOR
P.O. Box DD, Artesia NM 88211
District III
JUN 24 1997
1000 Rio Brazos Rd., Aztec NM 87416

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: Phillips Petroleum Company Telephone: (505) 599-3400

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

Facility Or: San Juan 29 - 5 Unit # 104 PC

Well Name

Location: Unit or Qtr/Qtr Sec NWNE Sec 10 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 15 ft, width 27 ft, depth 7 ft

Reference: wellhead X other _____

Footage from reference: 66 ft

Direction from reference: 30 Degrees _____ East of North X
_____ West South _____

Depth to Ground Water: 70 ft
(vertical distance from
contaminants to seasonal
highwater elevation of
ground water)

Less than 50 feet	(20 points)
<u>X</u> 50 ft to 99 feet	(10 points)
Greater than 100 feet	(0 points)

10

Wellhead Protection Area:
(less than 200 feet from a private
domestic water source, or: less than
1000 feet from all other water sources)

RECEIVED
APR 24 1997
OIL CON. DIV.
DIST. 3

Yes	(20 points)
<u>X</u> No	(0 points)

0

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)
<u>X</u> Greater than 1000 feet	(0 points)

0

P:\pita\prrc@WK3

RANKING SCORE (TOTAL POINTS): 10

SIGNATURE *Robert S. White* and TITLE **Sr. Safety & Environmental Specialist**

ENVIROTECH Inc.

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

PIT NO: PA240

C.O.C. NO: 3902

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163

PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: PHILLIPS PETROLEUM
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: _____

DATE STARTED: 8/31/94
DATE FINISHED: 8/31/94
ENVIRO. SPCLT: CJC
OPERATOR: _____
ASSISTANT: _____

LOCATION: LEASE: SF-078642 WELL: San Juan 29-5QD: Unit No. 104 PC
SEC: 10 TWP: 29N RNG: 5W PM: NM CNTY: Rio Arriba ST: NM PIT: Sep

LAND USE: Range

SURFACE CONDITIONS: Earthen Pit

PIT CENTER IS LOCATED APPROXIMATELY 66 FEET N30°W OF WELLHEAD.

0'-3' Clay black, soft, wet, some odor

3'-4' Clay tan, brown, soft, dry, no odor

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
T1 @ 4'	702	10	20	2	18	36
T1 @ 6'	703	10	20	20	337	6740

DEPTH TO GROUNDWATER: 70
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
NMCD RANKING SCORE: 10
NMCD TPH CLOSURE STD: <1000

SAMPLE INVENTORY

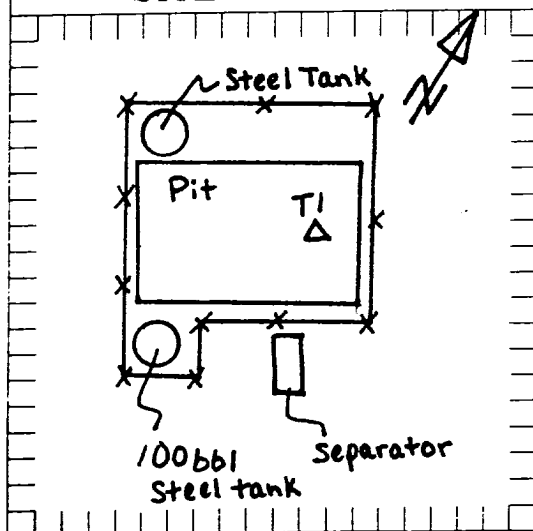
SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
T1 @ 6'	Soil	BTEX

SCALE



0 20 FEET

SITE DIAGRAM



TH#: 1

SOIL TYPE:	SMPL TYPE:	OVN/TPH
1	Clay, black, wet	
2	Pit bottom	
3	Clay, tan, dry	140/36
4		
5		168/6740
6		

TH#: _____

SOIL TYPE:	SMPL TYPE:	OVN/TPH

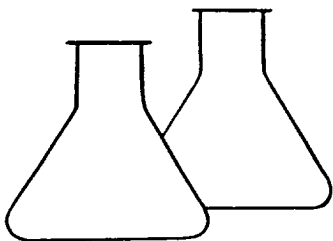
TH#: _____

SOIL TYPE:	SMPL TYPE:	OVN/TPH

TH#: _____

SOIL TYPE:	SMPL TYPE:	OVN/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	Project #:	93163
Sample ID:	T-1 @ 4.0'	Date Analyzed:	8-31-94
Project Location:	San Juan 29-5 #104PC	Date Reported:	9-23-94
Laboratory Number:	GAC0702	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	36	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2	2	0

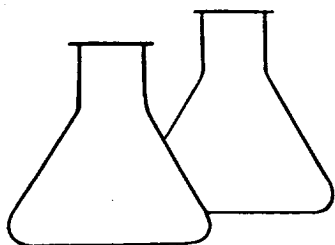
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA240

C. Jack Collins
Analyst

Morris D. Young
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	Project #:	93163
Sample ID:	T-1 @ 6.0'	Date Analyzed:	8-31-94
Project Location:	San Juan 29-5 #104PC	Date Reported:	9-23-94
Laboratory Number:	GAC0703	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	6,740	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	2	2	0

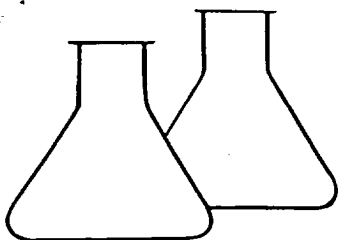
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA240

C. Jack Collins
Analyst

Mavis 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:	Phillips	Project #:	93163
Sample ID:	TI@6	Date Reported:	09-07-94
Laboratory Number:	7873	Date Sampled:	08-31-94
Sample Matrix:	Soil	Date Received:	08-31-94
Preservative:	Cool	Date Extracted:	09-02-94
Condition:	Cool & Intact	Date Analyzed:	09-07-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	69	19.3
Toluene	93	19.3
ethylbenzene	560	12.9
p,m-Xylene	224	19.3
o-Xylene	181	19.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	115 %
	Bromofluorobenzene	99 %

Method: 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. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: San Juan 29-5 #104 PC

Rex L. Griffin
Analyst

Maris D. Young
Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS									
Phillips Petroleum		San Juan, 29-5 #104 PC											
Sampler (Signature) <i>C. Jack Collins</i>				Chain of Custody Tape No.									
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers						Remarks		
T1 @ 6"	8/31/94	1245	9873	Soil	1	BITE							
Relinquished by: (Signature) <i>C. Jack Collins</i>		Date 8/31/94		Time 1700		Received by: (Signature) <i>Ref & Auffe</i>		Date 09/01/94		Time 800			
Relinquished by: (Signature)						Received by: (Signature)							
Relinquished by: (Signature)						Received by: (Signature)							

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

PIT NO: PA240

C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-5 WELL #: 104PC PIT: Sep

DATE STARTED: 5-10-95

DATE FINISHED: _____

QUAD/UNIT: B SEC: 10 TWP: 29N RNG: 5W BM: NM CNTY: R. AST: NM

ENVIRONMENTAL SPECIALIST: CJC

QTR/FOOTAGE: 950' FNL & 1720' FEL CONTRACTOR:

SOIL REMEDIATION: EXCAVATION APPROX. 15 FT. x 27 FT. x 7 FT. DEEP.

DISPOSAL FACILITY: Land Farm--On Site CUBIC YARDAGE: 105

LAND USE: Range LEASE: SF-078642

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 66 FEET N 30° W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 70 NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOC Ranking Score: 10 NMOC TPH Closure Std: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

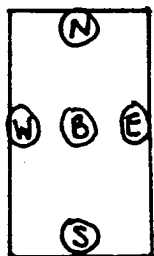
FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
E W @ 7'	1044	10.55	20.0	1	33	63
S W @ 7'	1045	10.75	20.0	1	17	32
Btm @ 7'	1046	10.36	20.0	1	24	46
W W @ 7'	1047	10.16	20.0	1	17	33
N W @ 7'	1048	10.65	20.0	1	16	30

SCALE

0 10 FEET

PIT PERIMETER



↓ To well head

OVM RESULTS

[illegible]

PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____ ONSITE: _____

ONSITE:

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: E. Wall @ 7'
Project Location: San Juan 29-5, 104PC
Laboratory Number: GAC1044

Project #: 93163
Date Analyzed: 05/10/95
Date Reported: 05/18/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	63	10

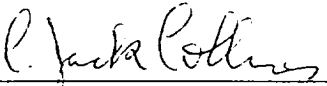
ND = Not Detectable at stated detection limits.

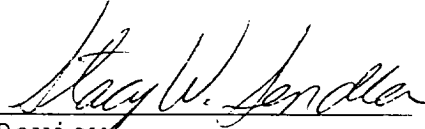
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA240


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: S. Wall @ 7'
Project Location: San Juan 29-5, 104PC
Laboratory Number: GAC1045

Project #: 93163
Date Analyzed: 05/10/95
Date Reported: 05/18/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	32	10

ND = Not Detectable at stated detection limits.

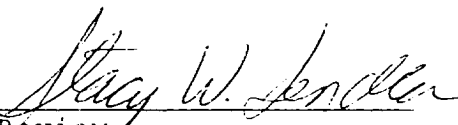
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA240


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: Bottom @ 7'
Project Location: San Juan 29-5, 104PC
Laboratory Number: GAC1046

Project #: 93163
Date Analyzed: 05/10/95
Date Reported: 05/18/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	46	10

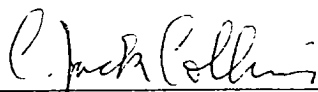
ND = Not Detectable at stated detection limits.

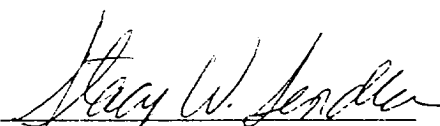
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA240


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: W. Wall @ 7'
Project Location: San Juan 29-5, 104PC
Laboratory Number: GAC1047

Project #: 93163
Date Analyzed: 05/10/95
Date Reported: 05/18/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	33	10

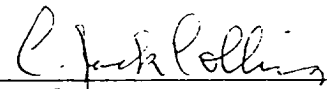
ND = Not Detectable at stated detection limits.

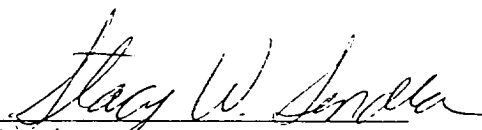
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA240


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: N. Wall @ 7'
Project Location: San Juan 29-5, 104PC
Laboratory Number: GAC1048

Project #: 93163
Date Analyzed: 05/10/95
Date Reported: 05/18/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	30	10

ND = Not Detectable at stated detection limits.

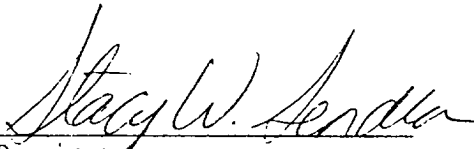
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA240


Analyst


Review

ENVIROTECH Inc.

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

PIT No: PA240
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-5 #104 PC

DATE STARTED: 5-10-95

SOURCE LOCATION: _____

DATE FINISHED: _____

SOURCE LOCATION: _____

ENVIRONMENTAL
SPECIALIST: CJC

SOURCE LOCATION: _____

FACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep

SOIL REMEDIATION: QUANTITY: 47 cy # OF COMP. SAMPLES: 1

DIMENSIONS: 60' x 42' x 0.5'

VISIBLE OBSERVATIONS: Oil Stain, Clay and Sand

SAMPLING PLAN: 1 5-point composite

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 54 YARDS NW FROM WELLHEAD.

DEPTH TO GROUNDWATER: 70

NEAREST WATER SOURCE/TYPE: >1000'

NEAREST SURFACE WATER: >1000'

MAX TPH PER NMDCD: 1000

No. OF 5-POINT
COMPOSITE SAMPLES:

YARDAGE--#

0-200=1

201-400=2

401-1000=3

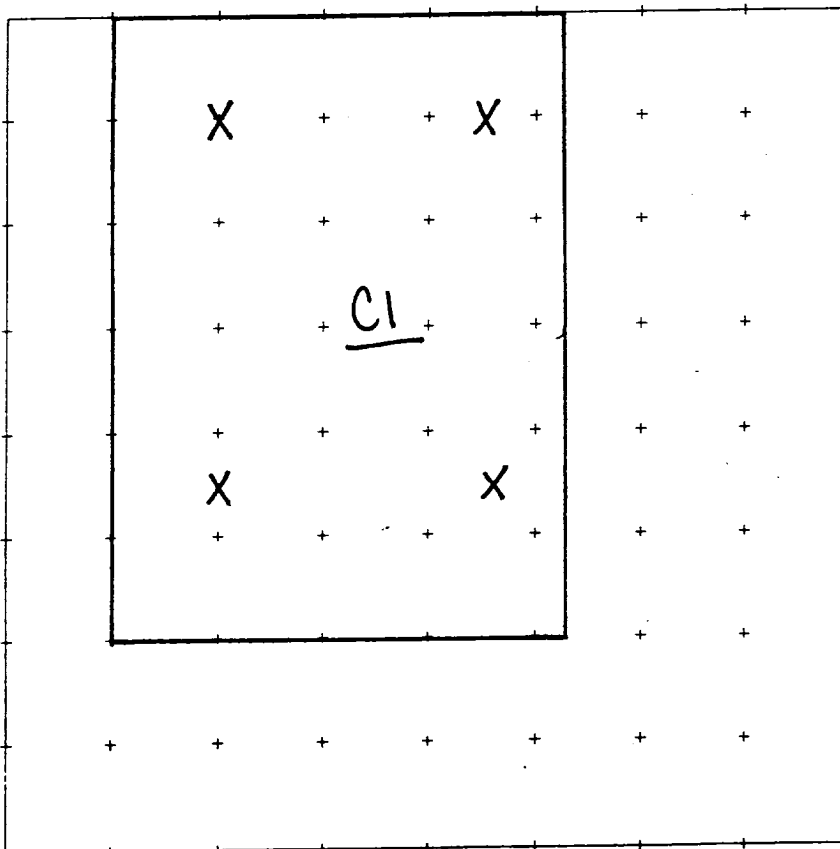
>1000=5

GAC #1043

$$\frac{20}{10.12} \times 269 \times 100 = 53,200 \text{ ppm}$$

FACILITY DIAGRAM

GRID SCALE: 10'



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	53

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
C1	GAC	53200

4

NORTH



WELLHEAD



SURFACE
FLOW DIR.



ESTIMATED
GROUNDWATER
FLOW DIR.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: C1
Project Location: San Juan 29-5, 104PC
Laboratory Number: GAC1043

Project #: 93163
Date Analyzed: 05/10/95
Date Reported: 05/18/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	53,000	1,000

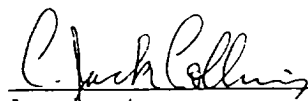
ND = Not Detectable at stated detection limits.

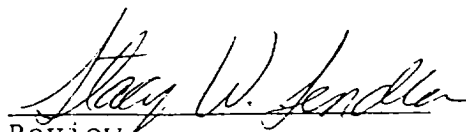
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA240


Analyst


Review

ENVIROTECH Inc.

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

PIT No: PA240
C.O.C #: 4340

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-5 # 104 PC Sec. 10, T29N, R5W, R.A.C.
SOURCE LOCATION: N.M.
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: On site landfarm PIT TYPE: Separator

DATE STARTED: 8-15-95
DATE FINISHED: 8-15-95

ENVIRONMENTAL
SPECIALIST: HMB

SOIL REMEDIATION: QUANTITY: 112 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 45'x 66'x 1'
VISIBLE OBSERVATIONS: Well tilled; some oilstains; cloddy on the surface
SAMPLING PLAN: 5 pt. composite @ 4" - 6" below surface

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 54 YARDS NNW FROM WELLHEAD.

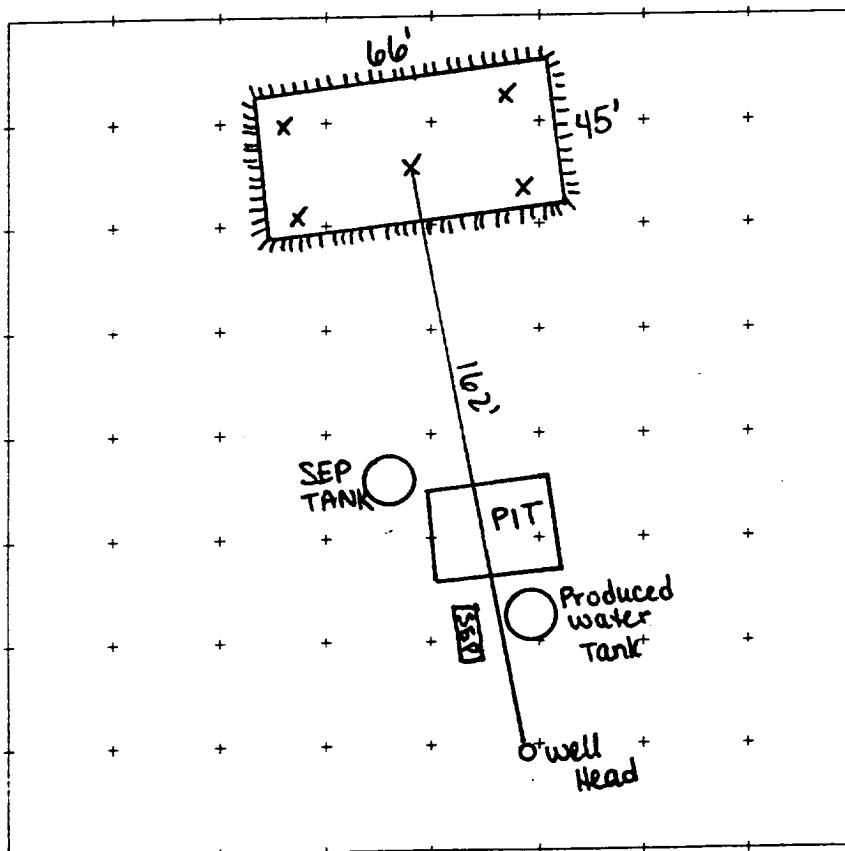
DEPTH TO GROUNDWATER: 70'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOC: 1000 ppm

Surface appears well tilled, soil @ 2" very hard, hand to hand auger samples for composite, sampling interval 4"-6" oily, some paraffin, noticeable petroleum odor 4 of 5 composite locations

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	137ppm

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
C1	TPH	11,800
C1	BIEX ND,	214



NORTH



WELLHEAD



SURFACE
FLOW DIR.



ESTIMATED
GROUNDWATER
FLOW DIR.

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 29-5 #104 PC	Date Reported:	08-16-95
Laboratory Number:	8794	Date Sampled:	08-15-95
Chain of Custody No:	4340	Date Received:	08-15-95
Sample Matrix:	Soil	Date Extracted:	08-16-95
Preservative:	Cool	Date Analyzed:	08-16-95
Condition:	Cool and Intact	Analysis Needed:	TPH

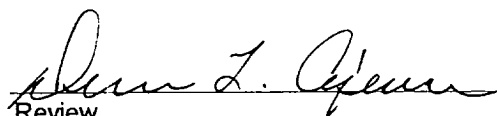
Parameter	Concentration (mg/kg)	DF =	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	11,800	5	50

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: **PA240. Various Landfarms.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 29-5 #104 PC	Date Reported:	08-17-95
Laboratory Number:	8794	Date Sampled:	08-15-95
Chain of Custody:	4340	Date Received:	08-15-95
Sample Matrix:	Soil	Date Analyzed:	08-16-95
Preservative:	Cool	Date Extracted:	08-16-95
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	44.4
Toluene	ND	50.8
Ethylbenzene	ND	47.5
p,m-Xylene	ND	40.5
o-Xylene	214	44.0

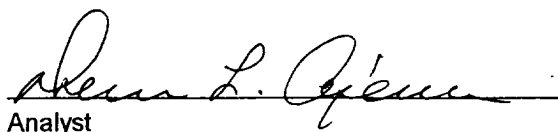
ND - Parameter not detected at the stated detection limit.

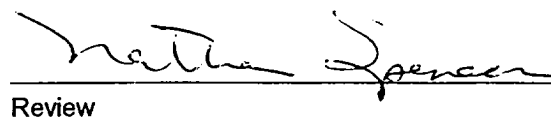
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	96 %

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: Various Landfarms. PA240.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name Phillips Petroleum			Project Location Various Land Farms		ANALYSIS/PARAMETERS							
Sampler: (Signature) <i>Harold M. Brown</i>			Chain of Custody Tape No.		No. of Containers		TPH		BTEx		Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
SAN Juan 30-5 #4706	8-15-95	11:48	87991	Soil	1	✓	418.1	BTEx 8020				BTEx if TPH > 100
SAN Juan 29-6 #87 DK	8-15-95	13:18	87992	Soil	1	✓						BTEx if TPH > 100
SAD Juan 29-6 #103 DK	8-15-95	14:37	87993	Soil	1	✓						BTEx if TPH > 1000
SAN Juan 29-5 #104 PC	8-15-95	15:53	87994	Soil	1	✓						BTEx if TPH > 1000
SAN Juan 29-5 #87 PC	8-15-95	18:57	87995	Soil	1	✓						No BTEx
SAN Juan 29-5 #75 DK	8-15-95	17:03	87996	Soil	1	✓						BTEx if TPH > 1000
SAN Juan 29-5 #75 DK	8-15-95	17:15	87997	Soil	1	✓						BTEx if TPH > 1000
SAN Juan 29-5 #87 PC	8-15-95	19:13	87998	Soil	1	✓						BTEx if TPH > 100
SAN Juan 29-5 #87 PC	8-15-95	19:26	87999	Soil	1	✓						No BTEx
Relinquished by: (Signature) <i>Harold M. Brown</i>			Date	Time	Received by: (Signature) <i>Matthew S. Brown</i>		Date	Time				
Relinquished by: (Signature)			8-15-95	21:20	Received by: (Signature)		8-15-95	21:20				
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							

ENTERED AUG 28 1995

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

ENVIROTECH Inc.

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

PIT No: PA240
C.O.C #: 4546

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-5 #104 PC

DATE STARTED: 11-22-95
DATE FINISHED: 11-22-95

SOURCE LOCATION:

SOURCE LOCATION:

SOURCE LOCATION:

FACILITY CLASSIFICATION:

Landfarm

PIT TYPE:

Sep

ENVIRONMENTAL
SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: 80 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 54' x 40' x 1.0'
VISIBLE OBSERVATIONS: Clay, some oil stain, hard, well compacted
SAMPLING PLAN: 1 5-point composite

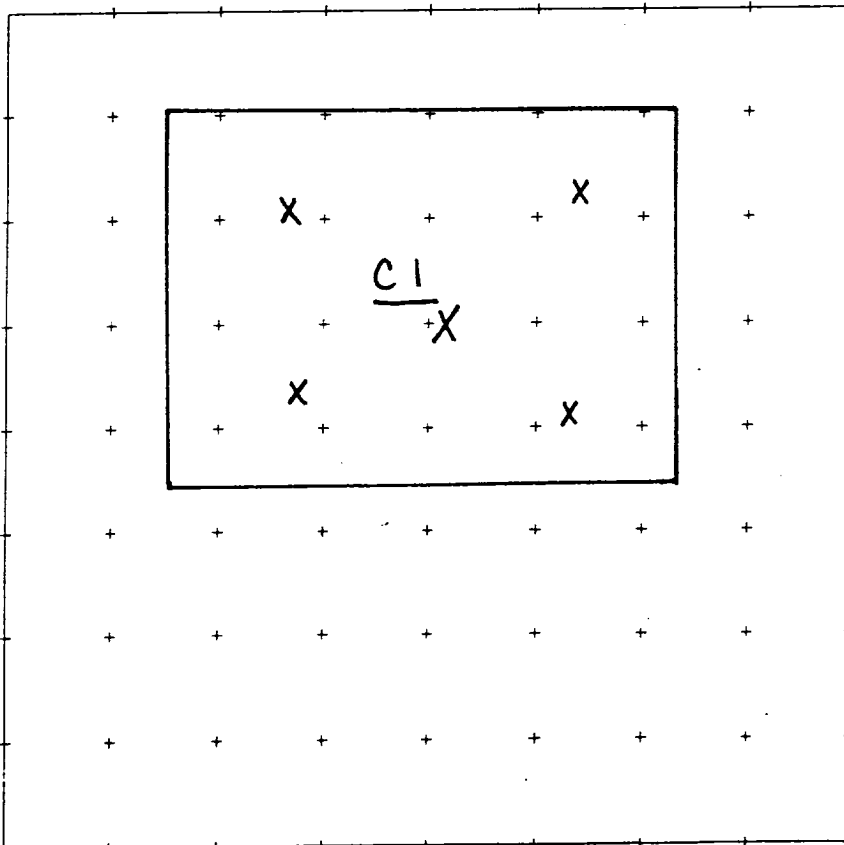
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 42 YARDS NW FROM WELLHEAD.

DEPTH TO GROUNDWATER: 70'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMDCD: 1000 ppm

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

FACILITY DIAGRAM

GRID SCALE: 1" = 20'

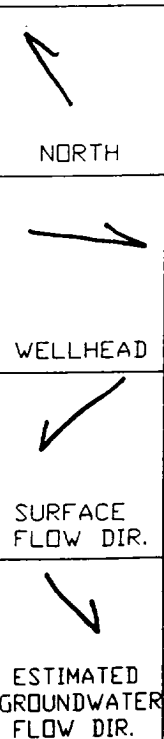


OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	4.8

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
C1	8015	TPH 1630



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

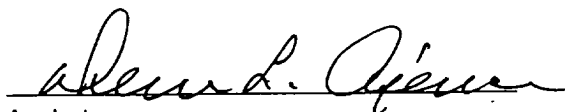
Client:	Phillips	Project #:	93163
Sample ID:	S.J. 29-5 #104 C1-LF	Date Reported:	11-28-95
Laboratory Number:	9690	Date Sampled:	11-22-95
Chain of Custody No:	4546	Date Received:	11-22-95
Sample Matrix:	Soil	Date Extracted:	11-27-95
Preservative:	Cool	Date Analyzed:	11-27-95
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.8
Diesel Range (C10 - C28)	1,630	0.5
Total Petroleum Hydrocarbons	1,630	0.8

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: 29-5 & 29-6, San Juan County, NM.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS													
Phillips/93163		29-5 429-4 NM															
Sample: (Signature) <i>C. J. Phillips</i>		Chain of Custody Tape No.															
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks											
5.5.29-6#8744	11/24/95	1507	9685	Soil	1	✓											
5.5.29-6#43-35	11/24/95	1429	9686	Soil	1	✓	✓										
5.5.29-6#48-35	11/24/95	1445	9687	Soil	1	✓											
5.5.29-6#103	11/22/95	1316	9688	Soil	1	✓											
5.5.29-6#89	11/22/95	1228	9689	Soil	1	✓											
5.5.29-5#104	11/21/95	1142	9690	Soil	1	✓											
Relinquished by: (Signature) <i>C. J. Phillips</i>				Date	Time	Received by: (Signature) <i>D. J. Phillips</i>	Date	Time									
Relinquished by: (Signature)						Received by: (Signature)											
Relinquished by: (Signature)						Received by: (Signature)											

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

ENVIROTECH Inc.

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

PIT No: PA240
C.O.C #: 4846

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-5 # 104 PC

DATE STARTED: 8-1-96
DATE FINISHED: 8-1-96

SOURCE LOCATION: _____

SOURCE LOCATION: _____

SOURCE LOCATION: _____

ENVIRONMENTAL
SPECIALIST: CJC

FACILITY CLASSIFICATION: On site landfarm PIT TYPE: Sep.

SOIL REMEDIATION: QUANTITY: 112 yd. # OF COMP. SAMPLES: 1

DIMENSIONS: 45' x 66' x 1'

VISIBLE OBSERVATIONS: _____

SAMPLING PLAN: 5 pt. composite

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 54 YARDS NW FROM WELLHEAD.

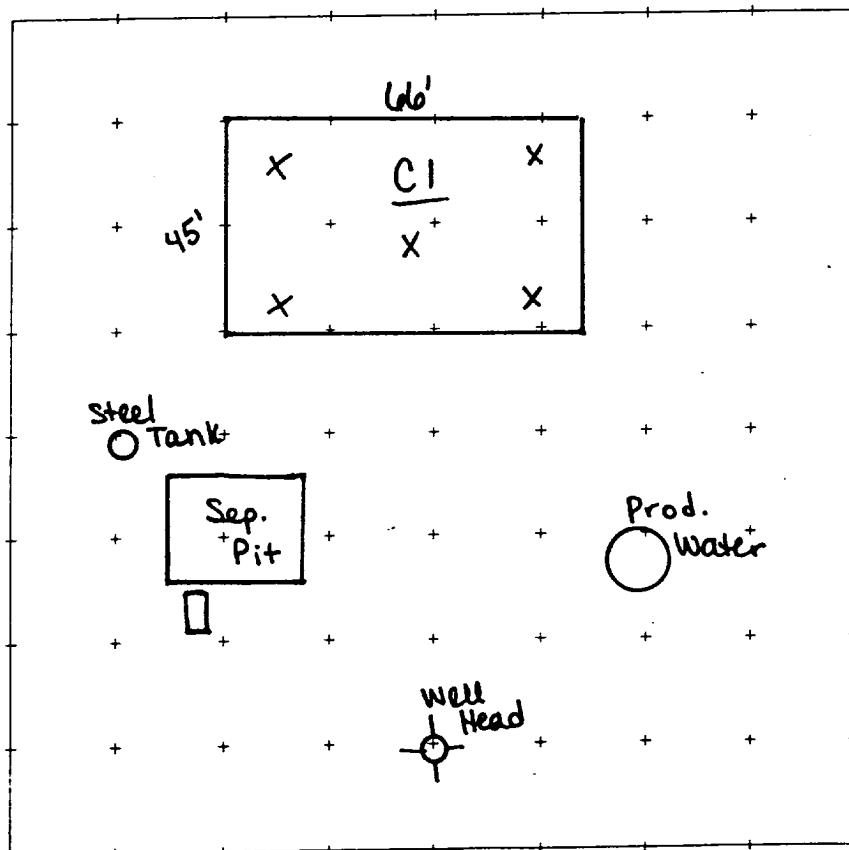
DEPTH TO GROUNDWATER: 70'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOC: 1000ppm

Hard, dry, brown, tan clay and fine
sand, no odor, no visible hydrocarbons

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

FACILITY DIAGRAM

GRID SCALE: 20'

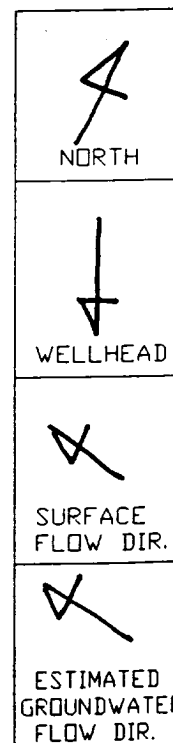


OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	13.0

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED: TPH	RESULTS PPM:
C1	8015	923



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

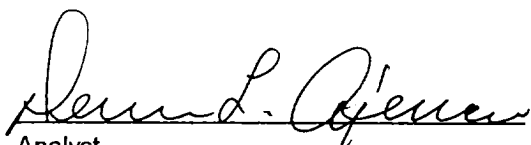
Client:	Phillips Petroleum	Project #:	93163
Sample ID:	C1 L.F.	Date Reported:	08-02-96
Laboratory Number:	A442	Date Sampled:	08-01-96
Chain of Custody No:	4846	Date Received:	08-01-96
Sample Matrix:	Soil	Date Extracted:	08-02-96
Preservative:	Cool	Date Analyzed:	08-02-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

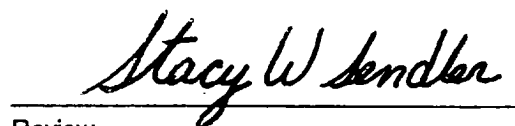
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	923	0.1
Total Petroleum Hydrocarbons	923	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **San Juan 29-5 104 PC L.F., Pit #PA240.**


Analyst


Review

San Juan County Form 570-01

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

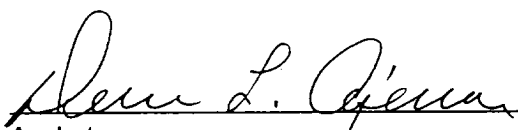
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	08-02-96
Laboratory Number:	08-02-TPH.BLANK	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-02-96
Condition:	N/A	Analysis Requested:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for sample A442.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	08-02-96
Laboratory Number:	A442	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Analyzed:	08-02-96
Condition:	Cool and Intact	Analysis Requested:	TPH

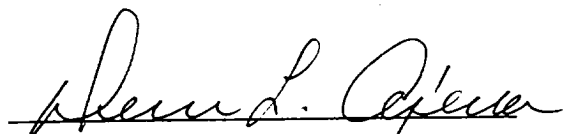
Parameter	Sample Result (mg/Kg)	Duplicate Result (mg/Kg)	Percent Difference
Gasoline Range (C5 - C10)	ND	ND	0.0%
Diesel Range (C10 - C28)	923	927	0.5%
Total Petroleum Hydrocarbons	923	927	0.5%

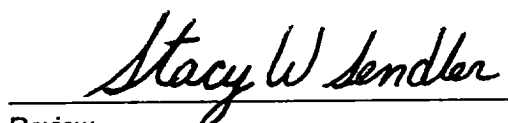
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Max Difference
	Petroleum Hydrocarbons	30%

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for sample A442.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Hydrocarbons
Total Petroleum Hydrocarbons
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	08-02-96
Laboratory Number:	A442	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TPH	Date Analyzed:	08-02-96
Condition:	N/A		

Parameter	Sample Result (mg/kg)	Spike Added (mg/kg)	Spiked Sample Result (mg/kg)	Det. Limit (mg/kg)	Percent Recovery
Gasoline Range (C5 - C10)	ND	250	248	0.2	99%
Diesel Range (C10 - C28)	923	250	1,173	0.1	100%
Total Petroleum Hydrocarbons	923	500	1,421	0.2	100%

ND - Parameter not detected at the stated detection limit.

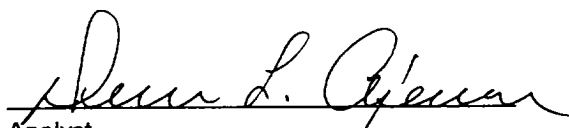
QA/QC Acceptance Criteria:	Parameter	Acceptance Range
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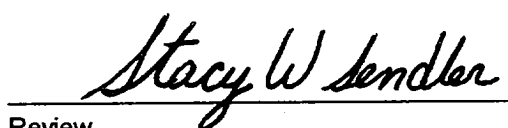
Petroleum Hydrocarbons

75 - 125%

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for sample A442.


Analyst


Review