

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 87211

District

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO

APPROPRIATE

DISTRICT OFFICE

AND 1 COPY TO

SANTA FE OFFICE

COPY

DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

APR 08 1997

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 #59

Well Name

H

Location: Unit or Qtr/Qtr Sec SENE Sec 31 T 29N R 5W County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐Land Type: BLM ☐ State ☐ Fee ☒ Other ☐Pit Location: Pit dimensions: Length 20', width 20', depth 4'
(Attach diagram)Reference: wellhead ☒ other ☐

Footage from reference: 66

Direction from reference: 45 Degrees East North ☒
X West South ☐Depth to Ground Water: 70
(vertical distance from ☒ contaminants to seasonal highwater elevation of ground water)
Less than 50 feet (20 points)
50 ft to 99 feet (10 points)
Greater than 100 feet (0 points) 10Wellhead Protection Area:
(less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources).
RECEIVED
MAR 20 1997
OIL CON. DIV.
DIST. 3
Yes (20 points)
No (0 points) 0Distance to Surface Water:
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)
Less than 200 feet (20 points)
200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

P:\pita\PITCFRM.WK3

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 8/31/90 Dated Completed: 4/6/95

Excavation X Approx. cubic yards 61

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 6 feet below the original pit bottom. The soils were landfarmed on location. The excavation tested clean on 10/13/94. 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:

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

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

Sample depth 10 feet from surface

Sample date 10/13/94 * Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 52

TPH 178

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 3-13-97

PRINTED NAME Bob Wirtanen

SIGNATURE Robert A. Wirtanen

and TITLE Sr. Safety & Environmental Specialist

ENVIROTECH Inc.

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

PIT NO: PA242

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: _____

DATE STARTED: 8/31/90
DATE FINISHED: _____
ENVIRO. SPCLT: CJC
OPERATOR: _____
ASSISTANT: _____

LOCATION: LEASE: Fee WELL: San Juan 29-5QD: Unit No. 59
SEC: 31 TWP: 29N RNG: 5W PM: NM CNTY: Rio Arr: ST: NM PIT: Sep.

LAND USE: Range

SURFACE CONDITIONS: _____

PIT CENTER IS LOCATED APPROXIMATELY 70 FEET NW OF WELLHEAD.

- 0'-1.5' Clay, tan, brown, dry, no odor
- 1.5'-3.0' Clay, gray, green, dry, strong odor
- 3.0'-7.0' Clay, sand, gray, green, dry, odor
- 8.0'-9.0' Sandstone, shale, hard, no odor

FIELD 418.1 CALCULATIONS

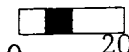
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
T1 @ 7'	706	10	20	20	282	5640
T1 @ 11'	707	10	20	2	11	22

DEPTH TO GROUNDWATER: 70
NEAREST WATER SOURCE/TYPE: None
NEAREST SURFACE WATER: >1000'
NMCD RANKING SCORE: 10
NMCD TPH CLOSURE STD: <1000

SAMPLE INVENTORY

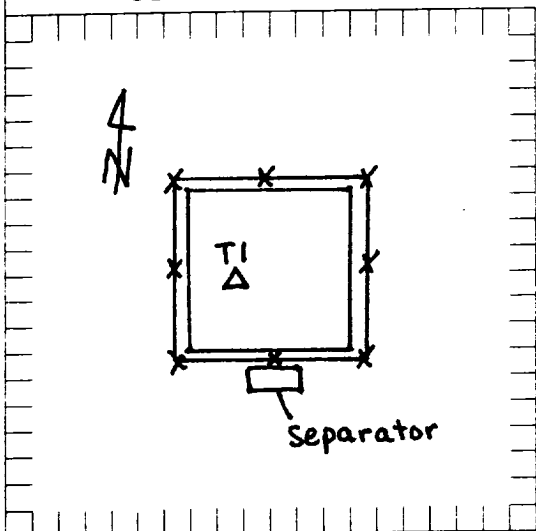
SMPL ID	SMPL TYPE	LABORATORY ANALYSIS

SCALE



20 FEET

SITE DIAGRAM



TH#: 1

SOIL TYPE: SMPL OVM/TPH

1			
2			
3			
4	Pit bottom		
5	Clay, tan		
6	Clay, grey	70/5640	
7	sand grey		
8			
9			
10		84/	
11	sands+ash	22	
12	(Bedrock?)		

TH#: _____

SOIL TYPE: SMPL OVM/TPH

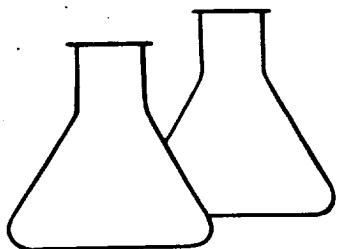
TH#: _____

SOIL TYPE: SMPL OVM/TPH

TH#: _____

SOIL TYPE: SMPL OVM/TPH

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



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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Phillips Petroleum
Sample ID: T-1 @ 7'
Project Location: San Juan 29-5 #59
Laboratory Number: GAC0706

Project #: 93163
Date Analyzed: 8-31-94
Date Reported: 9-26-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	5,640	100

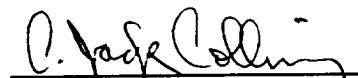
ND = Not Detectable at stated detection limits.

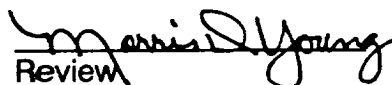
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2	2	0

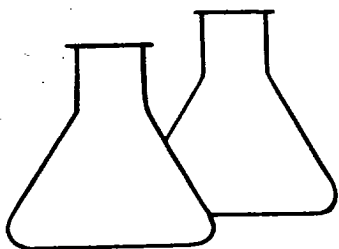
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA242


Analyst


Review



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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 @ 11'	Date Analyzed:	8-31-94
Project Location:	San Juan 29-5 #59	Date Reported:	9-26-94
Laboratory Number:	GAC0707	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	22	10

ND = Not Detectable at stated detection limits.

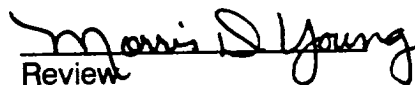
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2	2	0

*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 PA242


Analyst


Review

CLIENT: Phillips

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615PIT NO: PA242

COC NO: _____

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92163
PAGE No: _____ of _____LOCATION: NAME: San Juan 29.5 WELL #: 59 PIT: 500?DATE STARTED: 10/19/94
DATE FINISHED: 10/13/94

QUAD UNIT: SEC: TWP: RNG: BM: CNTY: ST:

EST. FOOTAGE: CONTRACTOR: Quinn YorkENVIRONMENTAL
SPECIAL ST: CCLSOIL REMEDIATION: EXCAVATION APPROX. 17 FT. x 18 FT. x 10 FT. DEEP.DISPOSAL FACILITY: on site land farm CUBIC YARDAGE: _____LAND USE: Forest Service / Re-leaseFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 66 FEET NW FROM WELL-HEADDEPTH TO GROUNDWATER: 70 NEAREST WATER SOURCE: _____ NEAREST SURFACE WATER: _____NMDC RANKING SCORE: _____ NMDC TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

0-8' clay, tan, brown, dry slight
odor
8-10' shale & sandstone, grey, green
dry, no odor
@10' - Bedrock hard, A.A

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	ML. FREON	DILUTION	READING	CALC. ppm
Btm @ 10'	828	10.35	20	1	92	178
W @ 8'	829	10.45	20	1	18	34
S @ 8'	830	10.38	20	1	11	21
N @ 8'	831	10.21	20	1	12	25
E @ 8'	832	10.06	20	1	85	169

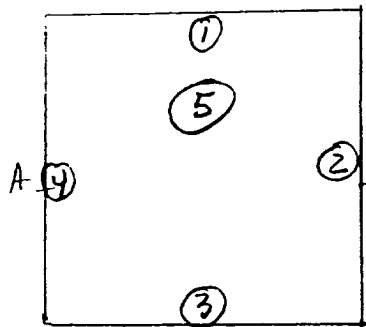
SCALE

0 10 FEET

PIT PERIMETER

RESULTS

PIT PROFILE



SAMPLE I.D.	FIELD HEADSPACE PHO (ppm)
1 @ 8'	3.0
2 @ 9'	1.0
3 @ 8'	5.7
4 @ 8'	4.0
5 @ 10'	5.2

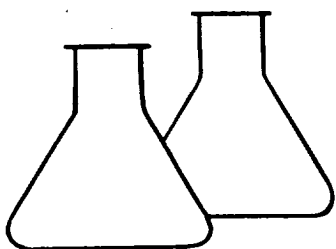
LAB SAMPLED

None

TRAVEL NOTES:

CALLOUT: _____

ONSITE: _____



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	1 @ 8.0'	Date Analyzed:	10-13-94
Project Location:	San Juan 29-5 # 59	Date Reported:	10-17-94
Laboratory Number:	GAC0831	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	25	10

ND = Not Detectable at stated detection limits.

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

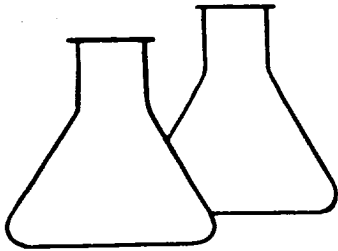
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA242

P. Jack Collins
Analyst

Morris D. Young
Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	2 @ 8.0'	Date Analyzed:	10-13-94
Project Location:	San Juan 29-5 # 59	Date Reported:	10-17-94
Laboratory Number:	GAC0832	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	169	10

ND = Not Detectable at stated detection limits.

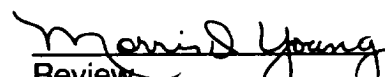
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	98 *	96	1

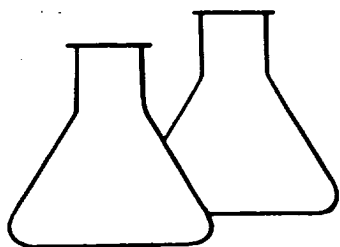
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA242


Analyst


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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	3 @ 8.0'	Date Analyzed:	10-13-94
Project Location:	San Juan 29-5 # 59	Date Reported:	10-17-94
Laboratory Number:	GAC0830	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	21	10

ND = Not Detectable at stated detection limits.

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

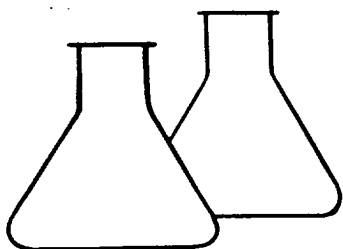
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA242

P. Jack Collins
Analyst

Morris D. Young
Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Phillips Petroleum
Sample ID: 4 @ 8.0'
Project Location: San Juan 29-5 # 59
Laboratory Number: GAC0829

Project #: 93163
Date Analyzed: 10-13-94
Date Reported: 10-17-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	34	10

ND = Not Detectable at stated detection limits.

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

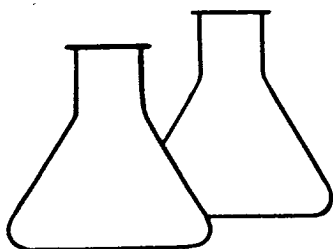
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA242

C. Jack Collins
Analyst

M. David Young
Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	5 @ 10.0'	Date Analyzed:	10-13-94
Project Location:	San Juan 29-5 # 59	Date Reported:	10-17-94
Laboratory Number:	GAC0828	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	178	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 PA242

C. Jack Collins
Analyst

Maria D. Young
Review

ENVIROTECH Inc.

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

PIT No: PA242
C.O.C #: 4150

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-5 #59
SOURCE LOCATION: Sec 31 Rio Arriba Co. NM
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: ST-DE Sep

DATE STARTED: 4-6-95
DATE FINISHED: 4-6-95
ENVIRONMENTAL
SPECIAL ST: CJC

SOIL REMEDIATION: QUANTITY: 75' x 60' x .5 # OF COMP. SAMPLES: 1
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 15 YARDS S FROM WELL-HEAD.

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

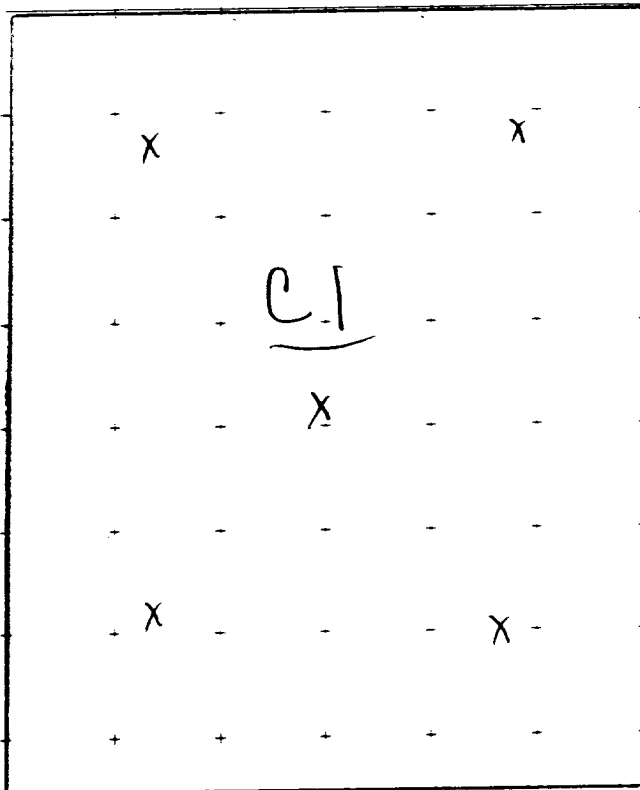
<1000

2

NO. OF 5-POINT
COMPOSITE SAMPLES
1-2000
2-2000
3-2000
4-2000
5-2000

FACILITY DIAGRAM

GRID SCALE 10'



OVM RESULTS

SAMPLE NO.	FIELD HEADSPACE
<u>C1</u>	<u>17.0</u>

LAB RESULTS

SAMPLE NO.	ANALYSIS REQUESTED	RESULTS
<u>C1</u>	<u>TPH</u>	<u>133</u>

4

DEPTH

→

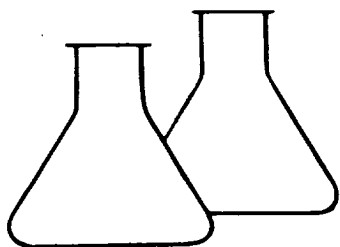
WELL-HEAD

✓

SURFACE FLOW DIR

✓

ESTIMATED GROUNDWATER FLOW DIR



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

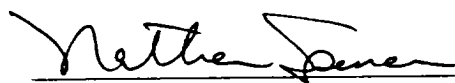
Client:	Phillips	Project #:	93163
Sample ID:	29-5 #59	Date Reported:	04-13-95
Laboratory Number:	8332	Date Sampled:	04-06-95
Chain of Custody No:	4150	Date Received:	04-06-95
Sample Matrix:	Soil	Date Extracted:	04-12-95
Preservative:	Cool	Date Analyzed:	04-12-95
Condition:	Cool and Intact	Analysis Needed:	TPH

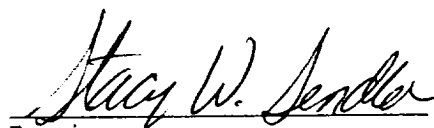
Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	133	10.0

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

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSIS/PARAMETERS												
Sampler: (Signature)			Chain of Custody Tape No.		Remarks												
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers												
29-5 #59	4-6-95	1448	83332	50:1	1	X											
29-5 #9-26	11-11	1537	83333		1	X											
29-5 #91	11-11	1611	83334		2	X	X										
29-6 #55A	11-11	1126	83335		1	X											
29-5 #41	11-11	1421	83336		1	X											
29-5 #58	11-11	1342	83337		1	X											
29-6 #100	11-11	1312	83338		1	X											
29-6 #25A	11-11	1224	83339		1	X											
29-5 #55A	11-11	1024	83460		1	X											
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time								
P. Jack Collins			4-6-95	1741	Nella Spae			4-6-95	1741								
Relinquished by: (Signature)					Received by: (Signature)												
Relinquished by: (Signature)					Received by: (Signature)												

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farrington, New Mexico 87401

(505) 632-0615