

SURFACE EROSION
 NATURAL RESOURCE DEPT
 AND OIL & GAS ADMINISTRATION

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/8/98 Date Completed: 9/9/98

Remediation Method: Excavation X Approx. cubic yards 1208

(Check all appropriate sections)

Landfarmed X

In situ Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____

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

General Description of Remedial Action: ON-SITE LAND FARMING

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location _____

Closure Sampling: JICARILLA 93 #5 PC

(if multiple samples, attach sample results

and diagram of sample locations and depths)

Sample depth 30' + SIDE WALLS

Sample date 9/9/98 Sample time 0955

Sample Results

BOTT WALL

Soil: Benzene (ppm) ND/ND Water: Benzene (ppb) _____

Total BTEX (ppm) .1316/ND Toluene (ppb) _____

Field Headspace (ppm) 205/7 Ethylbenzene (ppb) _____

TPH (ppm) 124/ND Total Xylenes (ppb) _____

Groundwater Sample: Yes _____ No X (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 10/22/98 PRINTED NAME Don Fernald

SIGNATURE [Signature] AND TITLE Project Manager

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: [Signature] DATE: 10/23/98

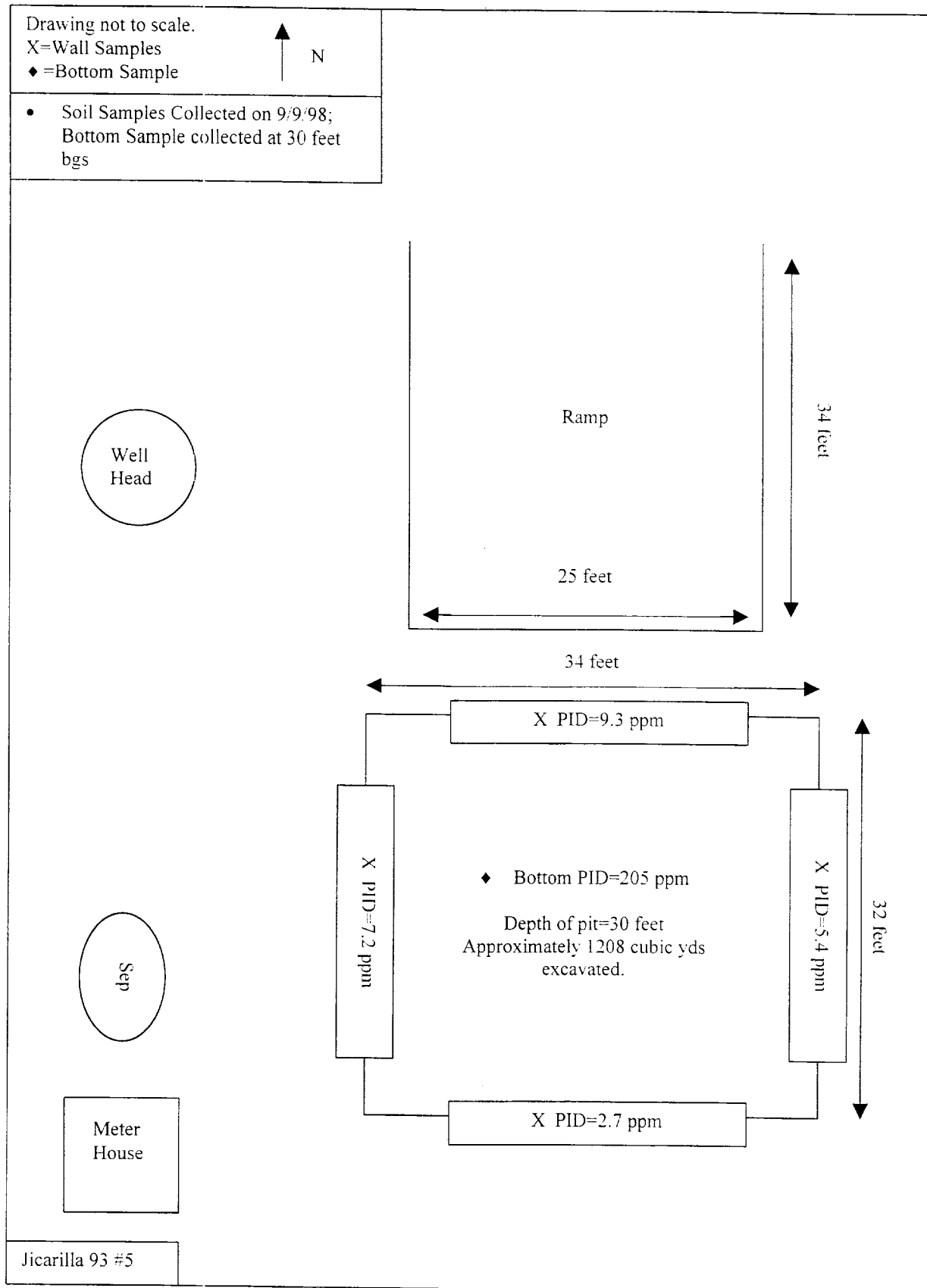
Drawing not to scale.

X=Wall Samples

◆=Bottom Sample



- Soil Samples Collected on 9/9/98;
Bottom Sample collected at 30 feet
bgs



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Philip Environmental	Client Sample Info:	Williams Production Pits
Work Order:	9809018	Client Sample ID:	Jicarilla 93-5P.C. Wall Comp
Lab ID:	9809018-01A	Matrix:	SOIL
Project:	18684 9200.05	Collection Date:	9/9/98 9:55:00 AM
		COC Record:	C2294

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/22/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/14/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	9/17/98
Toluene	ND	2		µg/Kg	1	9/17/98
Ethylbenzene	ND	1		µg/Kg	1	9/17/98
m,p-Xylene	ND	2		µg/Kg	1	9/17/98
o-Xylene	ND	1		µg/Kg	1	9/17/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT**Date:** 25-Sep-98

Client:	Philip Environmental	Client Sample Info:	Williams Production Pits
Work Order:	9809018	Client Sample ID:	Jicarilla 93-5P.C. Bottom Comp
Lab ID:	9809018-02A	Matrix:	SOIL
Project:	18684 9200.05	Collection Date:	9/9/98 9:58:00 AM
		COC Record:	C2294

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	120	25		mg/Kg	1	9/22/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	4	0.18		mg/Kg	1	9/14/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	9/17/98
Toluene	5.6	2		µg/Kg	1	9/17/98
Ethylbenzene	21	1		µg/Kg	1	9/17/98
m,p-Xylene	85	2		µg/Kg	1	9/17/98
o-Xylene	20	1		µg/Kg	1	9/17/98

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Surr: - Surrogate

1 of 1

Chain of Custody Record

COC Serial No. C 2294

Relinquished by:		Received By:	
Signature	Date	Signature	Date
<i>[Signature]</i>	9/9/98	<i>[Signature]</i>	9/10/98
<i>[Signature]</i>	9/10/98	<i>[Signature]</i>	9/10/98

Samples Iced: ☒ Yes ☐ No		Carrier:	Airbill No.
Preservatives (ONLY for Water Samples)		Shipping and Lab Notes:	
☐ Cyanide Sodium hydroxide (NaOH)			
☐ Volatile Organic Analysis Hydrochloric acid (HCl)			
☐ Metals Nitric acid (HNO ₃)			
☐ TPH (418.1) Sulfuric acid (H ₂ SO ₄)			
☐ Other (Specify)			
☐ Other (Specify)			

9-8-98 320-8061

Jic 93#5 P.C.

- Got to yard at 6:00, got fuel.
- Got paper work together.
- Had meeting with staff & new people.
- Martin talked about changes within the company. 7:00 - 8:30
- Left shop talked to Carolyn on the phone about using JVI she said he had all the right insurance and had signed a contract so it was O.K. to use them.
- Had Morgan on track hoe & Ray Torres on the loader, looks like he knows how to run loader.
- Told Ray that if he had any questions about what we were doing to not hesitate and ask.
- 11:50 measured pit. $25 \times 23 \times 20 = 42596$
426 yds
- Stopped for lunch at 12:00
at 12:30 started back up then at 1:00 we went over 500 yds. Went to hilly rate at 1:00
- Side walls clean down to 20' Bottom of pit still not.
- Called Carolyn and let her know we were over 500 yds on pit.

9.8.98

Jic. 93#5 PC.

- Let Ren V. know we were over 500 yds on pit. and that we went to hourly rate.
- Measured pit at 3:00 depth was 24'.
- Morgan dug off over burden on walls of pit so walls would not cave in.
- Put up fencing around pit left location at 4:10.
- Got back to yard at 5:40, showed Ray how to fill out time sheets.

9-9-98

Tic. 93-5 P.C.

500⁺ yds.

hrly rate.

- Started by digging on bottom of pit. Bottom still contaminated. Ray stock piled soil on location. 8:36 Ron Valdez still not on location.
- 9:00 Started to get samples on walls got west wall first.

- P.D readings on walls.

~~test~~ HeadSpace

West - 7.2 ppm

East - 5.4 ppm

South - 2.7 ppm

North - 9.3 ppm

Wall Comp. 6.5 ppm

30' Bottom Comp. 205 ppm

Labeled sample as Jicarilla 93-5 P.C. Wall Comp.

Jicarilla 93-5 P.C. Bottom Comp.

- 10:15 measured pit to see ~~where~~ how many yds we dug.

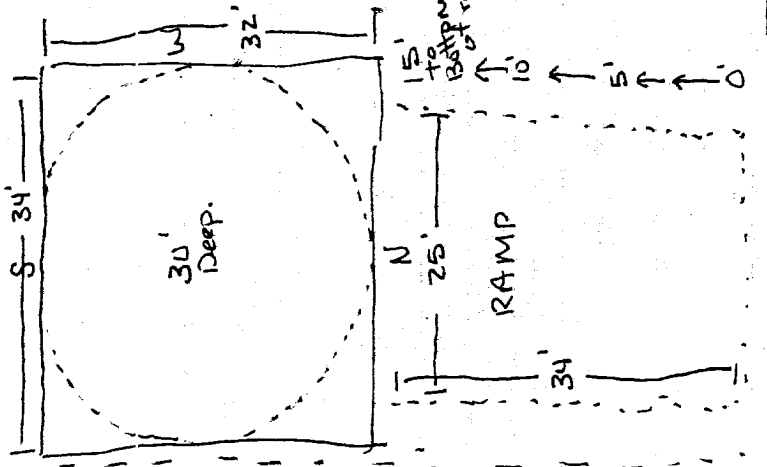
Pit excavation $32 \times 34 \times 30 = 1208 \text{ yds}$

ramp into pit $25 \times 34 \times 10 = 314 \text{ yds}$

T.C. 93-B P.C.

9-9-98

Pit excavation



LAND FARM

LAND FARM

LAND FARM

LAND FARM

9.9-98

Tic. 93-5 P.C.

- Called JVS to move track hoe to next location. Said he could move hoe.
- Truck & trailer arrived at 11:30 to move hoe. (Carlos Gurule)
- Loaded hoe moved to Tic. 92#16 unloaded hoe at 12:10.
- Went back to 93-5 P.C. where Ray was. He finished landfarming
- We ate lunch at 12:30 - 1:00
- Finished putting up fence. 1:30
- Loaded loader to 92#16 pulled down fence and started digging

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

SECRET 1 - P. 10
NATURAL RESOURCE DEPT
AND GOVERNMENT ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: WILLIAMS PRODUCTION COMPANY Telephone: 918-561-6250
Address: P.O. BOX 3102, MS 37-4 TULSA, OK. 74101
Facility or Well Name: JICARILLA 93#5
Location: Unit or Qtr/Qtr Sec F Sec 34 T 27N R 3W County RIO ARriba
Land Type: JICARILLA APACHE RESERVATION

Date Remediation Started: 9/8/98 Date Completed: 10/23/98
Remediation Method: Landfilled X Approx. cubic yards 1208
Composted:
Other:

Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) <u>0</u>	Sampling Date: <u>10/23/98</u> Time: <u>1640</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>200</u>
Distance To Surface Water: (pts.) <u>0</u>	TPH (ppm) <u>160</u> Method <u>8015</u>
	Other: <u>BTEX METHOD 8020</u>
RANKING SCORE (TOTAL POINTS): <u>0</u>	<u>ND</u>

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

DATE 11/19/98 PRINTED NAME ROBERT THOMPSON
SIGNATURE Robert Thompson AND TITLE PROJECT MANAGER

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) Cannot use as backfill.

SIGNED: Karen A. Callado DATE: 11/23/98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 04-Nov-98

Client:	Philip Environmental	Client Sample Info:	William Production Pits
Work Order:	9810082	Client Sample ID:	Jicarilla 93 #5 Landfarm
Lab ID:	9810082-01A	Matrix:	SOIL
Project:	18684: Jicarilla 93#5	Collection Date:	10/23/98 4:40:00 PM
		COC Record:	C2320

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	160	25		mg/Kg	1	11/3/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/30/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/Kg	1	10/28/98
Toluene	ND	2		µg/Kg	1	10/28/98
Ethylbenzene	ND	1		µg/Kg	1	10/28/98
m,p-Xylene	ND	2		µg/Kg	1	10/28/98
o-Xylene	ND	1		µg/Kg	1	10/28/98

Qualifiers:

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E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

COC Serial No. C 2320

Relinquished by:		Received By:	
Signature	Date	Signature	Date
	10/23/98		10/28/98
	10/28/98		10/15

Samples Iced: ☒ Yes ☐ No		Carrier:	Airbill No.
Preservatives (ONLY for Water Samples) ☐ Cyanide Sodium hydroxide (NaOH) ☐ Volatile Organic Analysis Hydrochloric acid (HCl) ☐ Metals Nitric acid (HNO ₃) ☐ TPH (418.1) Sulfuric acid (H ₂ SO ₄) ☐ Other (Specify) _____ ☐ Other (Specify) _____		Shipping and Lab Notes:	

TiConilla 93th S

~~For~~ Drove to location took PID
that were all below 100 ppm I heated
it up ~~that~~^{it} was 200 ppm I went a
head and sent sample IN

