

DEPUTY OIL & GAS INSPECTOR

FEB 03 1993 ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT COPY TO
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

perator: Williams Production Company Telephone: 918-561-6250
 ddress: P.O.Box 3102, MS 37-4 Tulsa Ok. 74101
 acility or Well Name: JICARILLA 92 #7
 ocation: Unit or Qtr/Qtr Sec F Sec 30 T27N R3W County RIO ARriba
 t Type: Separator Dehydrator Other PRODUCTION
 and Type: JICARILLA APACHE RESERVATION

Location: Pit dimensions: length 16', width 16', depth 3'
 Reference: wellhead _____, other _____
 Footage from reference: _____
 Direction from reference: _____ Degrees _____ of _____
 _____ West _____ South _____

Depth To Groundwater:	Less than 50 feet	(20 points)	
Vertical distance from -	50 feet to 99 feet	(10 points)	
contaminants to seasonal	Greater than 100 feet	(0 points)	<u>0</u>
water elevation of			
groundwater)			

Distance to an Ephemeral Stream
with gradient dry wash greater than
1 foot in width

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond Less than 100 feet (10 points)
 Greater than 100 feet (0 points) 0

Head Protection Area:
Is than 200 feet from a private
residential water source, or: less than
200 feet from all other water sources)

Yes (20 points)
No (0 points) 0

Distance to Surface Water:

Less than 100 feet	(20 points)
100 feet to 1000 feet	(10 points)
Greater than 1000 feet	(0 points)

(ponds, rivers, streams, creeks, canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/11/98 Date Completed: 9/14/98

Remediation Method: Excavation X Approx. cubic yards 800
(Check all appropriate sections) Landfarmed X Insitu 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 92#7 (ROCK ENCOUNTERED)
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 8' + side Wall
Sample date 9/14/98 Sample time 1330

Sample Results

Soil: Benzene (ppm) .180/ND Water: Benzene (ppb) _____
Total BTEX (ppm) 9.730/.0032 Toluene (ppb) _____
Field Headspace (ppm) 1248/90 Ethylbenzene (ppb) _____
TPH (ppm) 140/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.

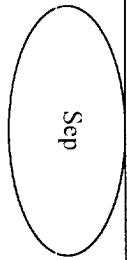
X=Wall Samples

◆ =Bottom Sample



- Soil Samples Collected 9/14/98;
Bottom Sample collected at 8 feet bgs

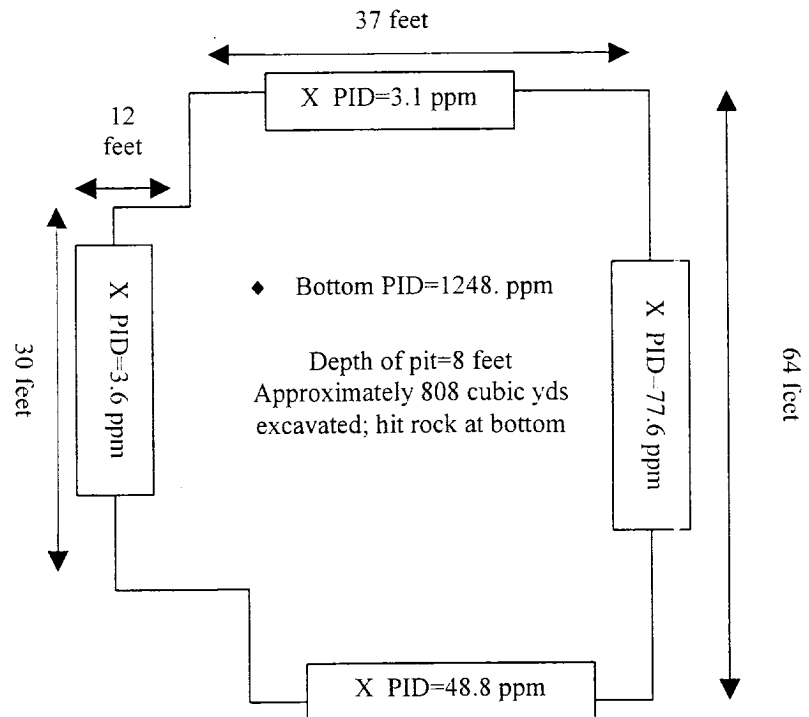
Meter House



Stock
Tank

Meter House

Jicarilla 92 #7



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:	9809032	Client Sample ID:	Jic. 92 #7 Wall Comp
Lab ID:	9809032-01A	Matrix:	SOIL
Project:	18684	Collection Date:	9/14/98 1:30:00 PM
		COC Record:	C2297

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/18/98
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	3.2	2		µg/Kg	1	9/17/98
o-Xylene	ND	1		µg/Kg	1	9/17/98

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

OFF: (505) 325-5667



I AB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Philip Environmental	Client Sample Info:	Williams Production Pits
Work Order:	9809032	Client Sample ID:	Jic. 92 #7 Bottom Comp
Lab ID:	9809032-02A	Matrix:	SOIL
Project:	18684	Collection Date:	9/14/98 1:32:00 PM
		COC Record:	C2297

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	140	45		mg/Kg	250	9/20/98
BTEX		SW8020A				Analyst: HR
Benzene	180	25		µg/Kg	25	9/17/98
Toluene	2600	50		µg/Kg	25	9/17/98
Ethylbenzene	750	25		µg/Kg	25	9/17/98
m,p-Xylene	5100	50		µg/Kg	25	9/17/98
o-Xylene	1100	25		µg/Kg	25	9/17/98

Qualifiers:

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Surr: - Surrogate

1 of 1

PHILIP

COC Serial No. C 2297

Relinquished by:		Received By:	
Signature	Date	Signature	Date
<i>Eric Anderson</i>	9-14-98	<i>Eric Anderson</i>	9-15-98
<i>Anna Fong</i>	9-15-98	<i>Heidi Robson</i>	9/15/98

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) _____			

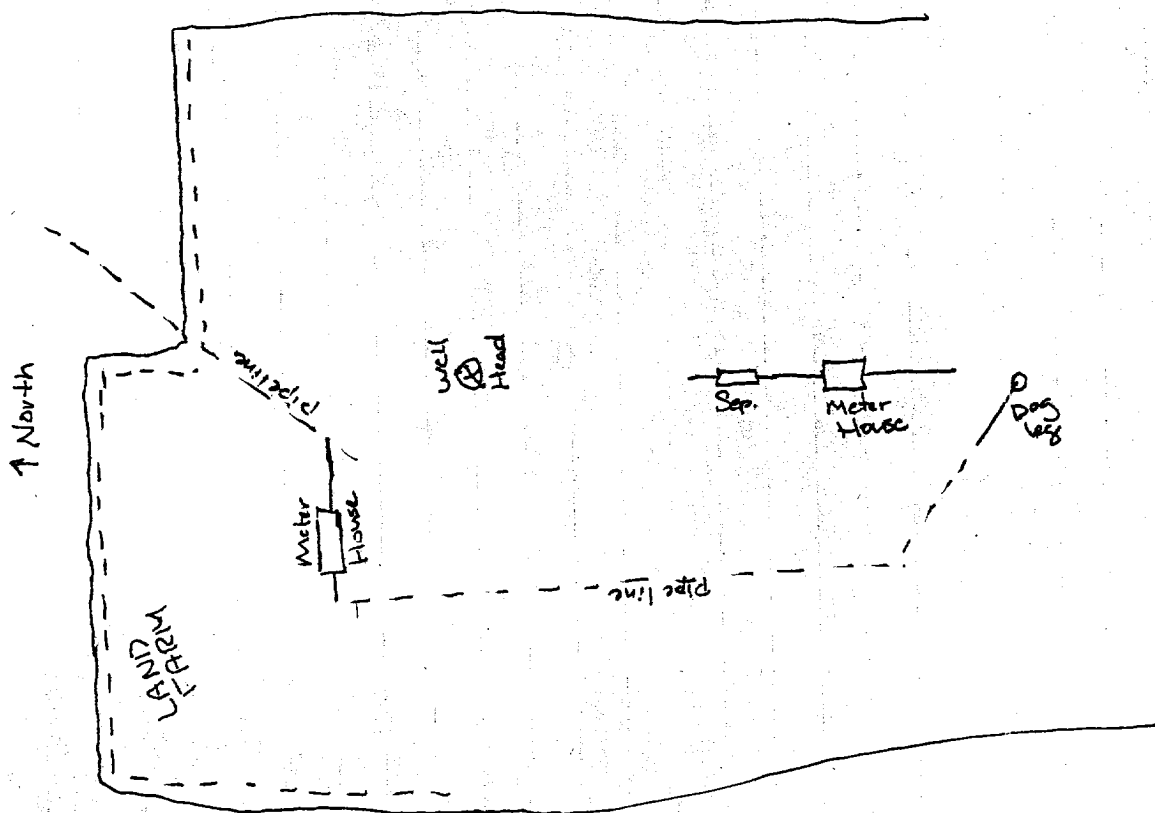
9-11-98

Tic. 92 #7

- Started on Tic. 92 #7, pulled down fence started on south wall
- Ray finished a little bit of landfarm on 92 #16.
- Measured pit at 1:00
 $34 \times 28 \times 8 = 282 \text{ yds.}$
- Finished digging out west side of pit.
- Dug out south side of pit.
- Loader finished land farming on location with wheel room we had. then he started stock piling.
- Left location at 4:00 got back to yard at 5:45.

Jic. 92 #7

9-11-98



9-14-98

Jic. 92 #7

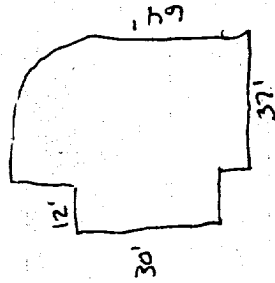
- Kept digging on pit. Dug on part of south wall and on east wall.
- Kept stack piling contaminated soil.
- Measured hole at 9:30
 $38 \times 23 \times 8 = 315 \text{ yds.}$

$$47 \times 50 \times 8 = 696 \text{ yds}$$

$$\begin{array}{r} - 200 \text{ yds left in with notes} \\ \hline 496 \end{array} \text{ on west wall.}$$

- Went to hrly rate at 11:00 AM.
- Measured hole at 10:45
- Talked with M. Stank about getting another pickup so that I could get with Carolyn in the morning to check on the new phases that go with this job.
- Finished digging and putting up fencing at 1:30.
- Moved to Jic. 92 #11 at 1:30
- Got last measurement of hole

$$\begin{array}{r} 30 \times 12 \times 8 = 1016 \text{ yds} \\ 64 \times 37 \times 8 = 7012 \text{ yds} \\ \hline 808 \text{ yds} \end{array}$$



3 rolls fence.

9-14-98

Jic. 92 #7

Ran Head space on samples.

North West wall	3.1 ppm.
West wall	3.6 ppm
East wall	77.6 ppm
South wall	48.8 ppm
Wall Comp.	89.9 ppm
Bottom Comp.	1248. ppm.

- Some stock pile left on location.

Hill rock at bottom

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

SUBMIT TO: PERMITS
NATURAL RESOURCE DEPT
INDUSTRIAL & LAND ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: WILLIAMS PRODUCTION COMPANY Telephone: 918-561-6280
Address: P.O. BOX 3102, MS 37-4, TULSA, OK 74101
Facility or Well Name: JICARILLA 92#7
Location: Unit or Qtr/Qtr Sec F Sec 30 T 27N R 3W County RIO ARriba
Land Type: JICARILLA APACHE RESERVATION

Date Remediation Started: 9/11/98 Date Completed: 10/21/98
Remediation Method: Landfarmed X Approx. cubic yards 800
Composted _____
Other _____

Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) <u>0</u>	Sampling Date: <u>10/21/98</u> Time: <u>1440</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>0</u>
Distance To Surface Water: (pts.) <u>0</u>	TPH (ppm) <u>ND</u> Method <u>8015</u>
RANKING SCORE (TOTAL POINTS): <u>0</u>	Other <u>BTEX-METHOD 8020 - ND</u>

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

DATE 11/5/98 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) Okay to use for backfill.

SIGNED: Karina J. Callado DATE: 11/5/98

OFF: (505) 325-5667



LAB: (505) 325-1556

November 18, 1998

Robert Thompson
Philip Environmental
4000 Monroe Road
Farmington, NM 87401
TEL: (505) 326-2262
FAX (505) 326-2388

RE: 18684 7000.77

Order No.: 9811053

Dear Robert Thompson,

On Site Technologies, LTD. received 1 sample on 11/16/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

- BTEX (SW8020A)
- Diesel Range Organics (SW8015)
- Gasoline Range Organics (SW8015)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox", is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 18-Nov-98

CLIENT: Philip Environmental
Project: 18684 7000.77
Lab Order: 9811053

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Oct-98

Client:	Philip Environmental	Client Sample Info:	Williams Production Pits
Work Order:	9810066	Client Sample ID:	Jicarilla 92 #7 Landfarm
Lab ID:	9810066-04A	Matrix:	SOIL
Project:	18684 7000.77	Collection Date:	10/21/98 2:40:00 PM
		COC Record:	C2309

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/29/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/27/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/Kg	1	10/23/98
Toluene	ND	2		µg/Kg	1	10/23/98
Ethylbenzene	ND	1		µg/Kg	1	10/23/98
m,p-Xylene	ND	2		µg/Kg	1	10/23/98
o-Xylene	ND	1		µg/Kg	1	10/23/98

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

Chain of Custody Record

(505) 326-2262 Phone
(505) 326-2388 FAX

(505) 326-2262 Phone
(505) 326-2388 FAX

Relinquished by:		Received By:	
Signature	Date	Signature	Date
	11-13-98		11/16/98
	11-16-98		11/16/98

Samples Iced: ☐ Yes ☐ No		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) _____		
Carrier: 		Shipping and Lab Notes: RUST SAMPLE

JIC 92[#] 7 Phase 5500

Drove to location PID Reading were
all 0.0 ppb I heated it up and it
was 0.0 ppb also Sample Time 1440

