DEFETY OIL & GAS INSPECTOR **ENVIRONMENTAL PROTECTION OFFICE**

JICARILLA APACHE TRIBE

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

FEB 0 8 1999

P.O. BOX 507 DULCE, NEW MEXICO 87528

Approver 1

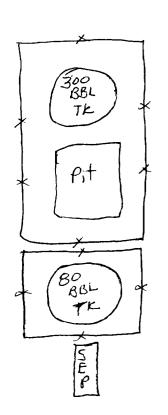
PIT REMEDIATION AND CLOSURE REPORT

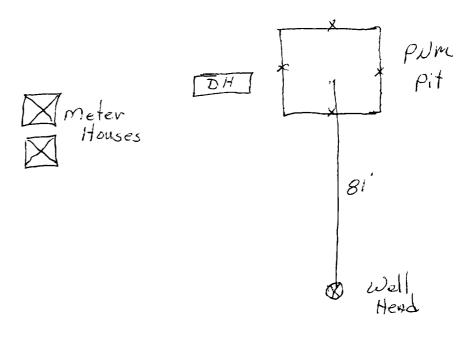
Operator: PNM Gas Services (BROG	Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87	401
Facility or Well Name: Jicarilla G.	-6
Location: Unit: L Sec. 2	T. 24 N R. 5 W County Rio Arriba
Pit Type: Separator Dehydrator	Other
Land Type: Jicarilla Apache	
Pit Location: Pit dimensions: length	30' width $20'$ depth $3'$
(Attach diagram) Reference: wellhead	t X other
Footage from reference:	81'
Direction from reference: Du	Degrees East North X
	of West South
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
Wellhead Protection Area:	Yes (20 points) No (0 points)
(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)	No (Uponts)
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, rrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)
Distance to Ephemeral Stream (dry wash): (Horizontal distance to all downgradient streams having a width of at least 10 feet)	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)
Distance to Nearest Lake, Playa, or Watering Pond: (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)
	RANKING SCORE (TOTAL POINTS):

Date Remediation Started	1: <u>5/5/</u> 98	Date Completed:	9/23/98
Remediation Method:	Excavation	_ Approx. Cubic Yards	4133
(Check all appropriate	Landfarmed X	Amount Landfarmed (cub	nic yds): 4/33
sections)	Other		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite <u>×</u>	Offsite	
Removed cov	ntaminated soil f	non All four A been 100pg	- side walls
Space reac	1 ing.	, ,	
Ground Water Encounter	red: No <u>X</u> Yes	Depth _	
Final Pit Closure Sampling:	Sample Location North E	Ast South Wa	est side walls,
(if multiple samples, attach sample result and diagram of	Sample depth 3/		
sample locations and depths.)	Sample date $\frac{5/7/96}{}$	Sample time	1531
Sa	ample Results		
Soil: B	enzene (ppm)	Water: Benzene (ppb)
To	otal BTEX (ppm	Toluene (
Fi	ield headspace (ppm) 63.3	(COLLOW) Ethylbenze	
TI	PH Method	8015 Total Xyler	nes (ppb)
Ground Water Sample:	Yes No _	(If yes, attach	sample results)
I HEREBY CERTIFY THAT KNOWLEDGE AND MY BE	THE INFORMATION ABOVE IS TE	RUE AND COMPLETE TO 1	THE BEST OF MY
, 1	- 0	ED NAME Roy Burnhar	m
SIGNATURE Roy !	SamhonAND	TITLE Environmental	Technician II
AFTER REVIEW OF THE TO JICARILLA APACHE T	PIT CLOSURE INFORMATION, PIT RIBE PIT CLOSURE ORDINANCE	CLOSURE IS APPROVED	IN ACCORDANCE
APPROVED: YES	NO (REASON)):	
SIGNED:	Mamul DATE	: 5-13-98	

Sec. 2 T26N RSW Unit L BROG

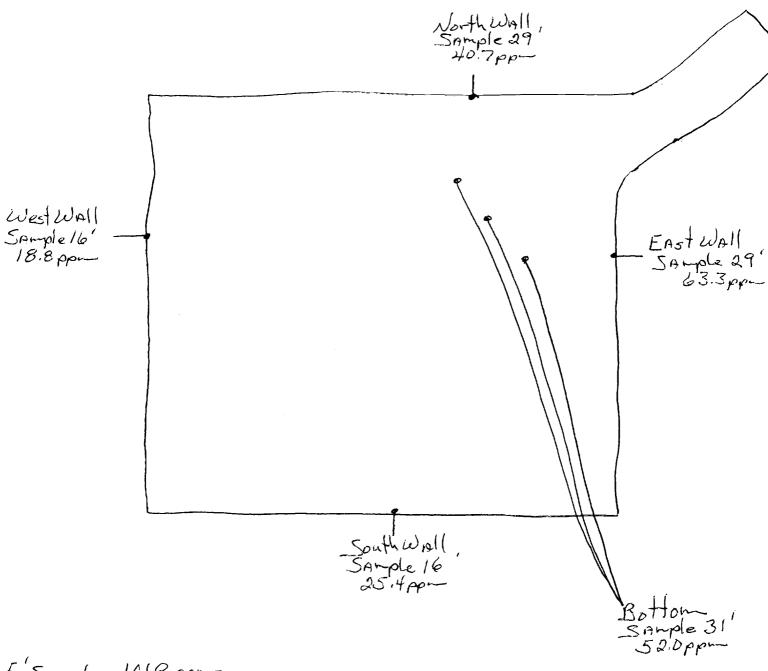
Site Drawing





60×60×31

Excauation Drawing



5 Sample - 1018 ppr-10' Sample - 839 pp-15' Sample - 1044 ppr-20' Sample - 938 pp-25' Sample - 440 pp-30' Sample - 100 pp-31' Sample - 52.0 pp-



CLIENT:

LAB: (505) 325-1556

On Site Technologies, LTD.

PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9805019

CASE NARRATIVE

Date: 12-May-98

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.



LAB: (505) 325-1556

Date: 12-May-98

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9805019

9805019-03A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Jicarilla G-6

Client Sample ID: 9805071530; 4pt. Comp. Walls

Collection Date: 5/7/98 3:30:00 PM

COC Record: 7144

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	5/11/98

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

I of I



LAB: (505) 325-1556

Date: 12-May-98

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9805019

9805019-04A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Jicarilla G-6

Client Sample ID: 9805071531; 3pt. Comp. Bottom

Collection Date: 5/7/98 3:31:00 PM

COC Record: 7144

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	sv	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	5/11/98

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

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

#1

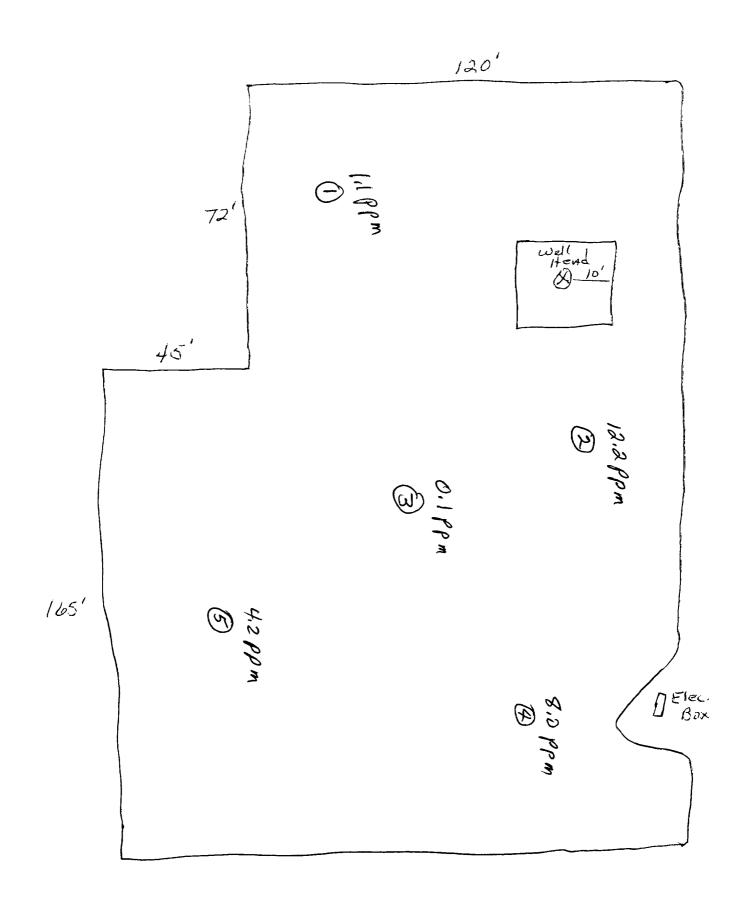
SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (BROG) Telepho	one: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicanilly G-6	
Location: Unit: Sec. 2 T. 26 N	R. <u>5</u> W County Rio Arriba
Land Type: Jicarilla Apache	
	ompleted: 6/11/98 cubic yards /378
Depth to Ground Water: (pts.)	Final Closure Sampling:
Distance to an Enhanced Stream (ats.)	npling Date: $4/9/98$ Time $1/22$
Distance to Nearest Lake, Playa, (pts.) Sar	npling Results:
(Fig.)	eld Headspace (ppm) 12.2
Distance to Surface Water:	PH (ppm) <u>92</u> Method <u>805</u>
Ranking Score (Total Points):	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE	TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 4/29/98 PRINTED NAME RO	y Burnham
DATE 4/29/98 PRINTED NAME RO SIGNATURE ROY Bicanha AND TITLE	Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION INFORMATION	ATION APPROVED IN ACCORDANCE TO THE
APPROVED: YES X NO (REASON) WE CL	s Backfill
SIGNED: Kan DATE: 6	-29-98

Sec. 2 Tabb RSW UnitL BROG

Land form Drawing #!



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Landfarms

Lab Order:

9806025

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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806025

Lab ID:

Project:

9806025-02A

Matrix: SOIL

Jicarilla Landfarms

Client Sample Info: Jicarilla G-6 Landfarm # / Client Sample ID: 9806091122; 5pt. Composite

Collection Date: 6/9/98 11:22:00 AM

COC Record: 7026

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 92	V8015 25	mg/Kg	1	Analyst: HR 6/11/98

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

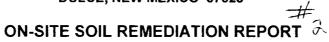
B - Analyte detected in the associated Method Blank

Surr: - Surrogate

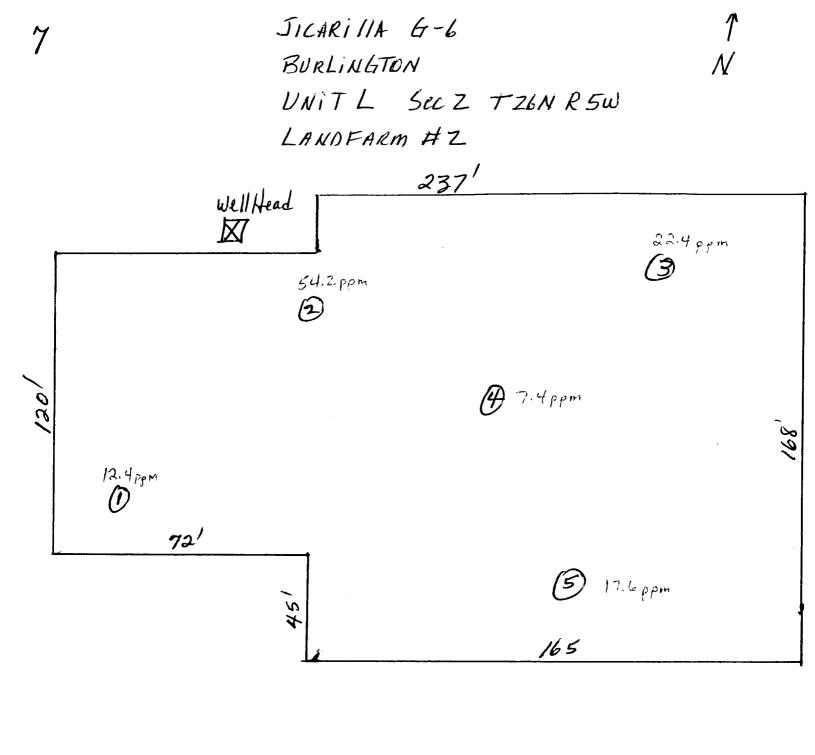
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JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION



Operator: PNM Gas Services (BROG) Telephone: 324-3764				
Address: 603 W. Elm Street Farmington, NM 87401					
Facility or Well Name: SICARILLA G-6					
Location: Unit or Qtr/Qtr Sec:	T. 24 N R. 5 W County Rio Arriba				
Land Type: SICARING APACHE					
Date Remediation Started: $5/5/98$	Date Completed: 7/14/98				
Remediation Method: Landfarmed	Approx. cubic yards 1378				
Composted Other					
Depth to Ground Water: (pts.)	Final Closure Sampling:				
Distance to an Ephemeral Stream: (pts.)					
Distance to Nearest Lake, Playa, (pts.) φ	Sampling Results:				
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 54.7				
Distance to Surface Water: (pts.)	TPH (ppm) <u>37</u> Method <u>8015</u>				
Ranking Score (Total Points):	Other				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE A	AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF				
DATE 7/14/98 PRINTE	NAME Roy Burnham				
SIGNATURE Roy Buenhar	AND TITLE Environmental Technician II				
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE					
APPROVED: YES NO (REASON)	use as Backfill				
SIGNED: KOOCH Manual I	DATE: 7-28-98				



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Landfarms

Lab Order:

9807018

CASE NARRATIVE

Date: 14-Jul-98

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.

OMISTRE LONG OF LOUIS NAMED



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

Project:

9807018

Lab ID: 9807018-01A

Matrix: SOIL

Landfarms

Client Sample Info: Jicarilla G-6 #2 LF

Client Sample ID: 9807070719; 5pt. Comp

Collection Date: 7/7/98 7:19:00 AM

COC Record: 7261

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	37	25	mg/Kg	1	7/14/98

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

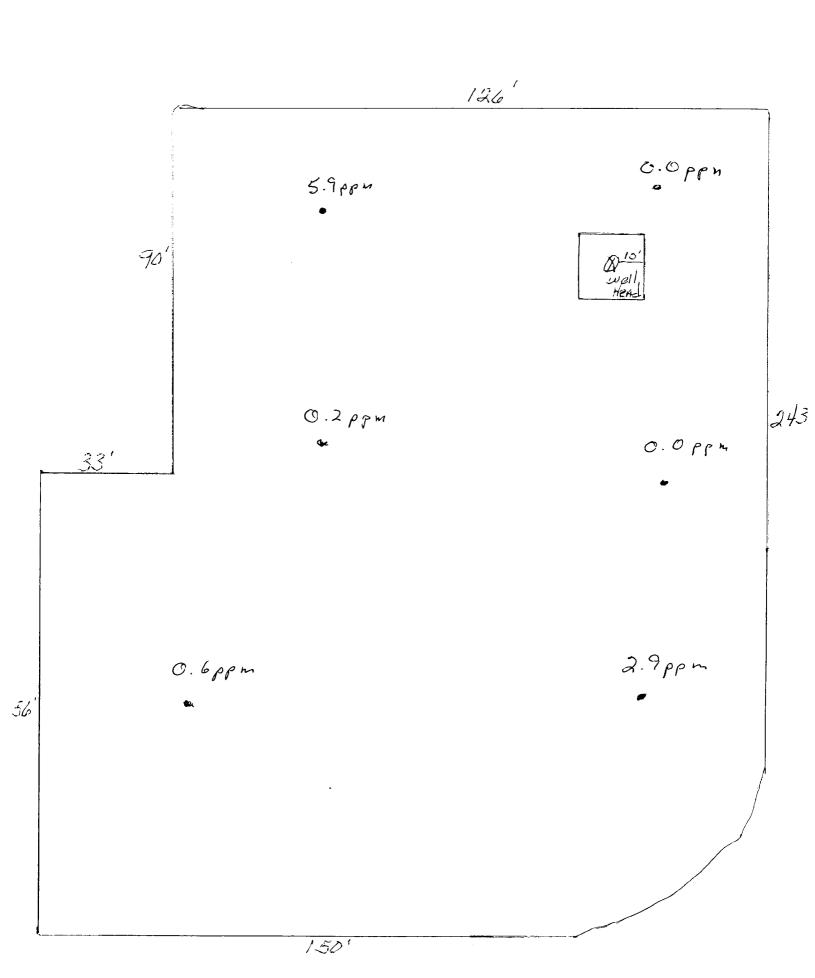
1 of 1

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

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



Operator: PNM Gas Services (BROG) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: JICARILLa Co-6	
Location: Unit: Sec. <u>ス</u> T	. 26 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache	<u> </u>
Date Remediation Started: \$\int 5/98	Date Completed: 9/3/98
Remediation Method: Landfarmed	Approx. cubic yards 1377
Composted Other	
Depth to Ground Water: (pts.) \checkmark	Final Closure Sampling:
Distance to Nearest Lake, Playa, (pts.)	Sampling Date: 8-31-98 Time 0821
or Watering Pond: Wellhead Protection Area: (pts.)	~ G
Distance to Surface Water: (pts.)	TPH (ppm) ND Method $8C/5$
Ranking Score (Total Points):	Other
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE A	AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 9/14/98 PRINTER	D NAME Roy Burnham
DATE 9/14/90 PRINTER SIGNATURE Ray Burnham	AND TITLE Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	4-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
APPROVED: YES NO (REASON)	Use as Backfill
SIGNED: Leve. Man	DATE: 9-23-98





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Landfarms

Lab Order:

9808064

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.



LAB: (505) 325-1556

Date: 10-Sep-98

ANALYTICAL REPORT

Matrix: SOIL

Client: PNM - Public Service Company of NM

Work Order: 9808064

Lab ID: 9808064-05A

_.

Project: Jicarilla Landfarms

Client Sample Info: Jicarilla G-6 #3 LF

Client Sample ID: 9808310829; 6pt. Comp

Collection Date: 8/31/98 8:29:00 AM

COC Record: 7435

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	9/3/98

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

1 of 1