

Denny L. Foust
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

OCT 28 1997

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Amoco) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla Apache Tribal 151-6E
Location: Unit: 0 Sec. 9 T 26 N R 5 W County Rio Arriba
Pit Type: Separator Dehydrator X Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 25' width 25' depth 6'
(Attach diagram) Reference: wellhead X other
Footage from reference: 93'
Direction from reference: 30 Degrees East North
 West South

Depth to Ground Water:

(Vertical distance from contaminants
to seasonal high water elevation or
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points) 0
Greater than 100 feet (0 points)

Wellhead Protection Area:

(Less than 200 feet from a private domestic
water source, or: less than 1,000 feet from all
other water sources)

Yes (20 points)
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 1,000 feet (10 points) 0
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) 0

**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) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 5/19/97 Date Completed: 7/9/97

Remediation Method: Excavation X Approx. Cubic Yards 139

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 139

Other _____

Remediation Location: Onsite X Offsite _____
(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all four side walls AS to get A below 100 ppm head space reading. Bottom was solid rock.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location North, East, South and West side walls

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 5'

Sample date 5/20/97 Sample time 0855

Sample Results

Soil: Benzene (ppm) ND

Water: Benzene (ppb) _____

Total BTEX (ppm) 0.0383

Toluene (ppb) _____

Field headspace (ppm) 91.0

Ethylbenzene (ppb) _____

TPH 12.7 ppm Method 8015

Total Xylenes (ppb) _____

Ground Water 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 MY BELIEF

DATE 5/29/97

PRINTED NAME Ronald A. Dedrick

SIGNATURE Ronald A. Dedrick

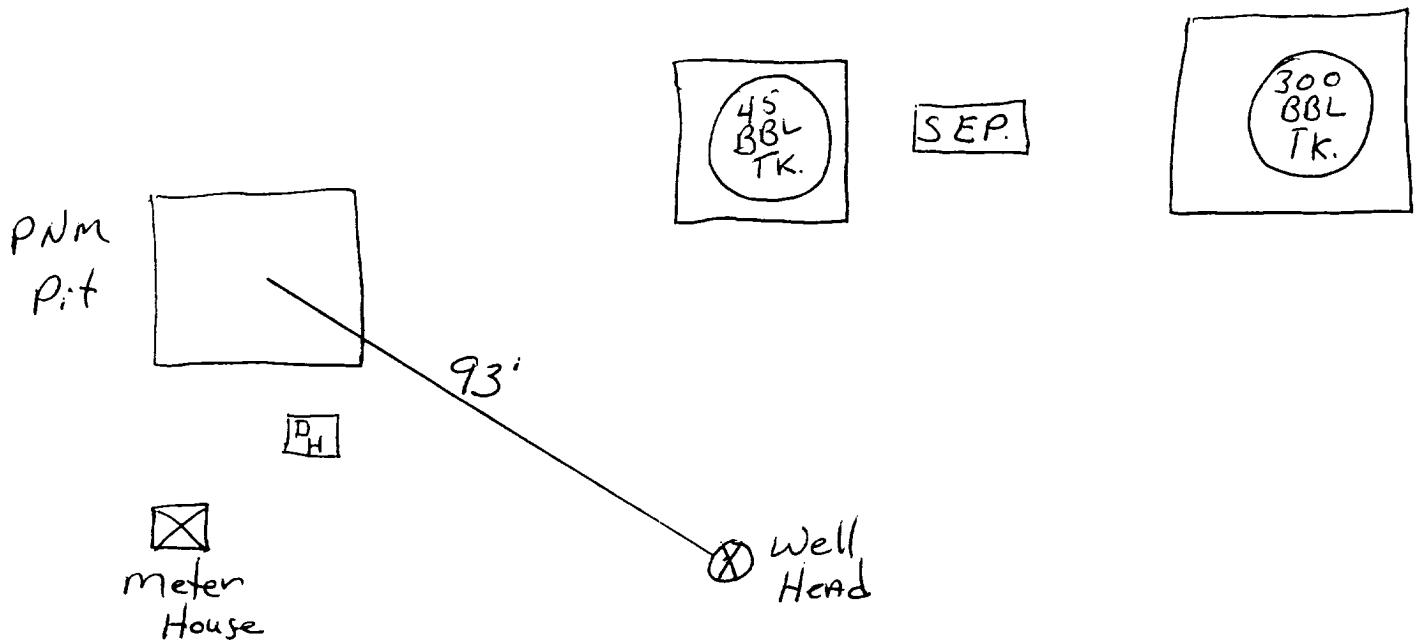
AND TITLE Environmental Technician II

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

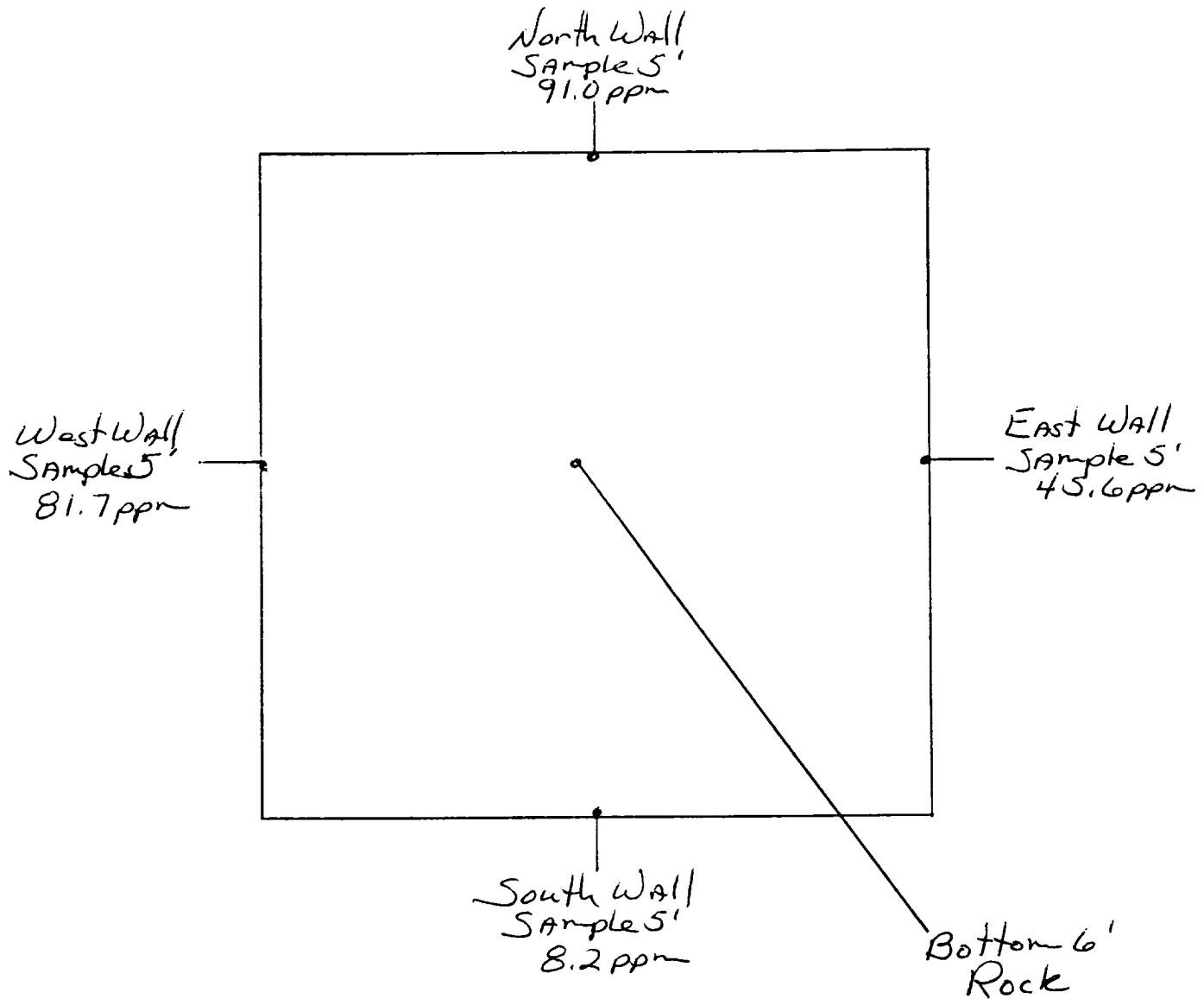
SIGNED: Ronald A. Dedrick DATE: 5-29-97

Jicarilla Apache Tribal 151-6E
Sec. 9 T26N R5W Unit O
Amoco



Jicarilla Apache Tribal 151-6E
Sec. 9 T26N R5W Unit O
Amoco

25'x25'x6'



5' Sample - 660 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *28-May-97*
COC No.: *5424*
Sample No.: *14667*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-6E Run 12-21*
Project Location: *9705200855; 4pt. Composite*
Sampled by: *NK* Date: *20-May-97* Time: *8:55*
Analyzed by: *DC* Date: *27-May-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10- C28)</i>	<i>12.7</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0519-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>100</i>	<i>102</i>	<i>2.4</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>94</i>	<i>97</i>	<i>(70-130)</i>	<i>3</i>	<i>20%</i>

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
Date: *5/28/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *28-May-97*
COC No.: *5424*
Sample No.: *14667*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-6E Run 12-21*
Project Location: *9705200855; 4pt. Composite*
Sampled by: *MK* Date: *20-May-97* Time: *8:55*
Analyzed by: *DC* Date: *27-May-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1.0	ug/kg
<i>Toluene</i>	2.2	ug/kg	1.0	ug/kg
<i>Ethylbenzene</i>	4.1	ug/kg	1.0	ug/kg
<i>m,p-Xylene</i>	25.0	ug/kg	1.0	ug/kg
<i>o-Xylene</i>	7.0	ug/kg	1.0	ug/kg
<i>TOTAL</i>	38.3	ug/kg		

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *5/28/97*

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ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Amoco) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla Apache Tribal 151-6E
Location: Unit: 0 Sec. 9 T. 26 N. R. 5 W. County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 5/19/97 Date Completed: 6/13/97
Remediation Method: Landfilled X Approx. cubic yards 139
Composted —
Other —

Depth to Ground Water: (pts.) 0
Distance to an Ephemeral Stream: (pts.) 0
Distance to Nearest Lake, Playa,
or Watering Pond: (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance to Surface Water: (pts.) 0
Ranking Score (Total Points): 0

Final Closure Sampling:

Sampling Date: 6/11/97 Time 1549
Sampling Results:
Field Headspace (ppm) 13.2
TPH (ppm) 6 Method 8015
Other —

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

DATE 6/20/97 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

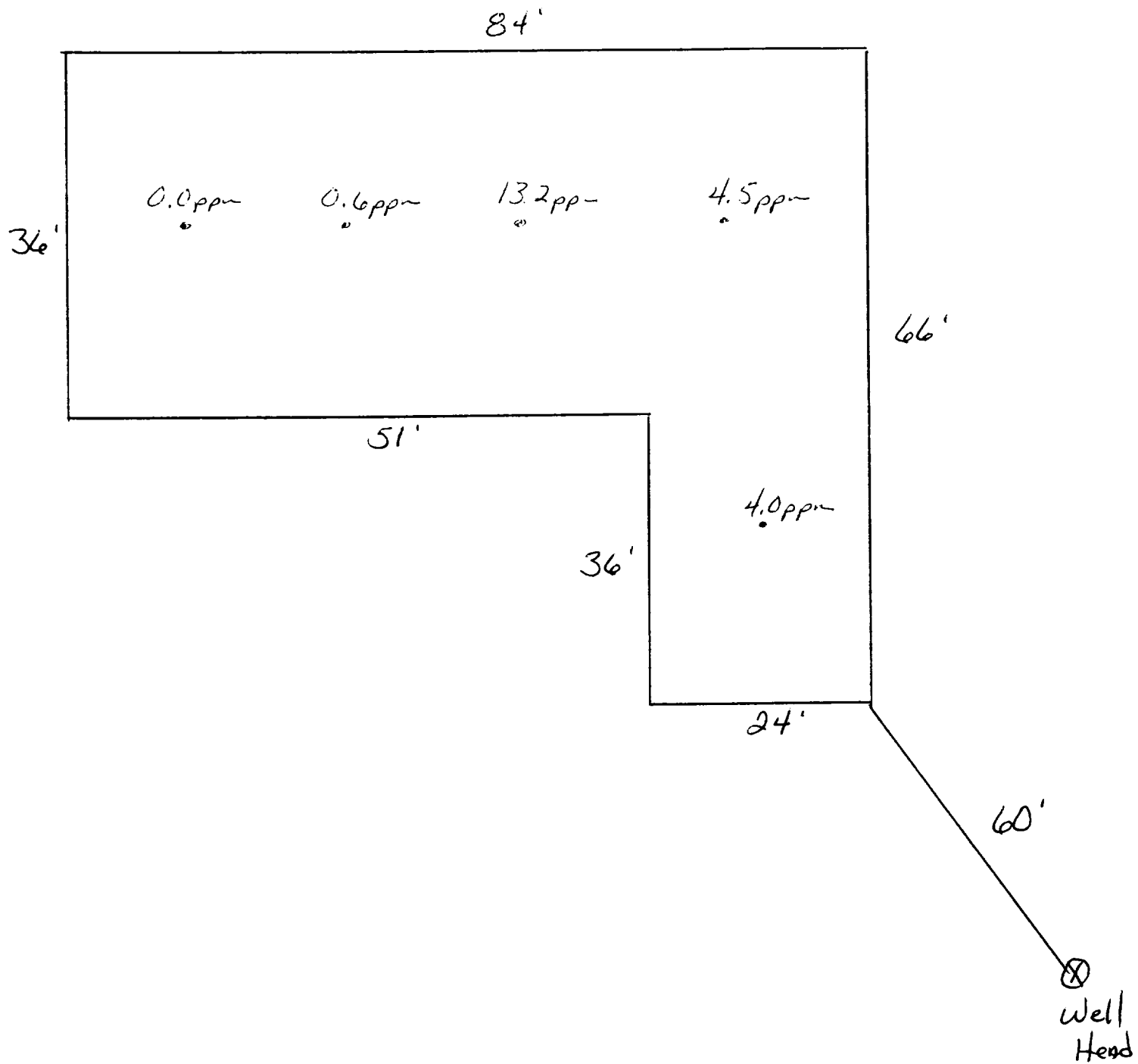
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES X NO — (REASON) —

SIGNED: Kenneth C. Williams DATE: 6-23-97

Jicarilla Apache Tribal 151-6E
Sec. 9 T26N R5W Unit O
Amoco

Land farm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Denver Bearden**
Company: **PNM Gas Services**
Address: **503 W. Elm**
City, State: **Farmington, NM 87401**

Date: **17-Jun-97**
COC No.: **5491**
Sample No.: **14936**
Job No.: **2-1000**

Project Name: **PNM Gas Services - Jicarilla Apache Tribal 151-6E Landfarm**
Project Location: **9706111549; 5pt. Composite**
Sampled by: **RD** Date: **11-Jun-97** Time: **15:49**
Analyzed by: **DC/HR** Date: **13-Jun-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Diesel Range Organics (C10 - C28)	6	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	209	4.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	90	93	(70-130)	3	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

Date: **6/17/97**

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