

District I  
P.O. Box 1980, Hobbs, NM

District II  
P.O. Drawer DD, Artesia, NM 88221

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: PNM Gas Services ( Burlington ) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Hampton #4M

Location: Unit N Sec 13 T 30N R 11W County San Juan

Pit Type: Separator ☐ Dehydrator ☒ Other                     

Land Type: BLM ☒ State ☐ Fee ☐ Other                     

Pit Location: Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ☒ other                     

Footage from reference: 121'

Direction from reference: 10 Degrees ☒ East ☒ North  
of ☐ West ☐ South

(Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	<u>20</u>
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	( 0 points)	

(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	Yes	(20 points)	<u>0</u>
	No	( 0 points)	

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	<u>20</u>
	200 feet to 1,000 feet	(10 points)	
	Greater than 1,000 feet	( 0 points)	

**RANKING SCORE (TOTAL POINTS) :** 40

000037

Hampton #4M

Date Remediation Started: 4/24/96 Date Completed: 4/25/96

Remediation Method: Excavation X Approx. Cubic Yard 286

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 286

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Hampton #2 13-30N-11W  
(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location: \_\_\_\_\_

**General Description of Remedial Action:**

Excavated contaminated soil to pit size 21' X 32' X 11.5' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing/disking until soil met regulatory levels.

Ground Water Encountered: No ☐ Yes ☒ Depth 22'

**Final Pit Closure Sampling:**

Sample Location 5 pt composite-4 side walls and center of pit bottom

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

Sample depth 11.5'

Sample date 4/24/96 Sample time 1:25:00 PM

**Sample Results**

Benzene (ppm) 15.7475

Total BTEX (ppm) 621.8694

Field headspace (ppm) \_\_\_\_\_

TPH (ppm) 1300.90 Method 8015A

Vertical Extent (ft) \_\_\_\_\_ Risk Analysis form attached Yes ☐ No ☐

Ground Water Sample: Yes ☒ No ☐ (If yes, see attached Groundwater Site Summary Report)

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

DATE November 12, 1998

SIGNATURE Maureen Gannon

PRINTED NAME **Maureen Gannon**  
AND TITLE **Project Manager**

000000

PNMGS Well Site: **Hampton 4M**

## **Groundwater Site Summary Report**

Copies: WFS(1)  
Operator (1)  
NMOCD District Office (1)  
NMOCD Santa Fe (1)

**Quarter/Year:** 2<sup>nd</sup>/97, 3<sup>rd</sup>/97, 4<sup>th</sup>/97, 1<sup>st</sup>/98, 2<sup>nd</sup>/98, and 3<sup>rd</sup>/98

---

**Operator:** Burlington Resources  
**Sec:** 13 **Twn:** 30N **Rng:** 11W **Unit:** D  
**Canyon:** Hampton Arroyo

**Vulnerable Class:** Original  
**OCD Ranking:** 40  
**Lead Agency:** NMOCD

---

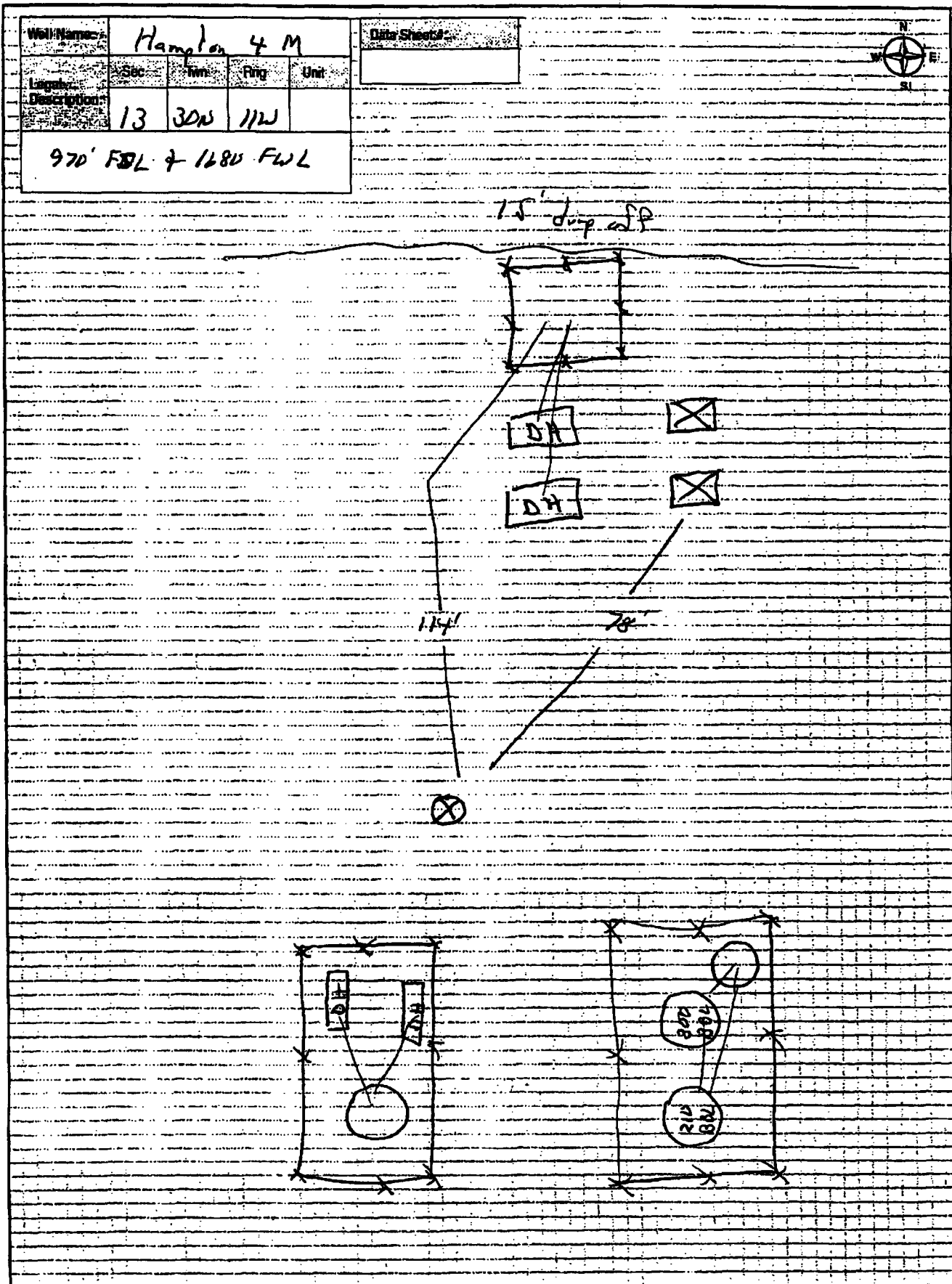
### **Activities to Date:**

PNM's last summary report on the Hampton 4M site was submitted to OCD on August 11, 1998. Since then, PNM has continued to perform groundwater monitoring and free product recovery at the site until most recently when Burlington Resources (BR) commenced site wide soil excavation (11/12/98). To prepare for soil excavation, BR directed Williams to remove PNM's product recovery system. In addition, during excavation activities, BR destroyed PNM's groundwater monitoring well network. PNM objected to BR's insistence on moving forward with site wide soil excavation in a letter to OCD dated November 4, 1998. The basis of the objection was (1) the precise release point of free product contamination has not been determined; (2) BR's proposed excavation activities will interrupt PNM's ongoing remediation and monitoring activities; (3) site wide excavation will obliterate important evidence concerning the release point or points of contamination; (4) BR's proposed strategy does not address the true continuing source of contamination at this site or the extensive free product contamination in the groundwater underlying the site; and (5) there are other cost effective means of pursuing remediation at this site without the attendant problems associated with BR's methodology. PNM regards BR's decision to proceed with massive soil excavation as Burlington's acknowledgement that Burlington is solely and completely responsible for causing and addressing any and all contamination at the site.

### **Future Activities:**

PNM is hereby filing the final closure report of our former pit at the Hampton 4M. For the purposes of pit closure, PNM is referencing upgradient well concentrations as remediation clean-up levels for groundwater at the Hampton 4M. Therefore, PNM has successfully remediated soil and groundwater in the area of the former pit based upon BTEX concentrations in groundwater in MW-2, MW-5, MW-6, and MW-7 with reference to background BTEX concentrations (free phase floating product) in upgradient groundwater monitoring wells, MW-4, MW-8 and MW-10.

000000



OFF: (505) 325-8786



LAB: (505) 325-5667

**Diesel Range Organics EPA 8015-Modified**

Attn: **Maureen Gannon**  
 Company: **PNM Gas Services**  
 Address: **Alevarado Square, Mail Stop 0408**  
 City, State: **Albuquerque, NM 87158**

Date: **25-Apr-96**  
 COC No.: **4588**  
 Sample No. **10715**  
 Job No. **2-1000**

Project Name: **PNM Gas Services - Hampton 4M**  
 Project Location: **9604241325; Pit Excavation Composite Sample**  
 Sampled by: **RH** Date: **24-Apr-96** Time: **13:25**  
 Analyzed by: **DC** Date: **25-Apr-96**  
 Sample Matrix: **Soil**

**Laboratory Analysis**

Analyte	Result	Unit of Measure	Detection Limit	Unit of Measure
<b>Diesel Range Organics (C10 - C28)</b>	<b>1300.9</b>	<b>mg/kg</b>	<b>5.0</b>	<b>mg/kg</b>

**Quality Assurance Report**DRO QC No.: **0446-STD****Calibration Check**

Analyte	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
<b>Diesel Range (C10 - C28)</b>	<b>&lt;5.0</b>	<b>ppm</b>	<b>2,000</b>	<b>1,990</b>	<b>0.5</b>	<b>15%</b>

**Matrix Spike**

Analyte	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
<b>Diesel Range (C10-C28)</b>	<b>101</b>	<b>101</b>	<b>(70-130)</b>	<b>0</b>	<b>20%</b>

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

Approved by:

Date: **4/26/96****P. O. BOX 2606 • FARMINGTON, NM 87499****- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -**

000701



OFF: (505) 325-8786

LAB: (505) 325-5667

**AROMATIC VOLATILE ORGANICS**

Attn: **Maureen Gannon**  
Company: **PNM Gas Services**  
Address: **Alevardo Square, Mail Stop 0408**  
City, State: **Albuquerque, NM 87158**

Date: **26-Apr-96**  
COC No.: **4588**  
Sample No. **10715**  
Job No. **2-1000**

Project Name: **PNM Gas Services - Hampton 4M**  
Project Location: **9604241325; Pit Excavation Composite Bottom**  
Sampled by: **RH** Date: **24-Apr-96** Time: **13:25**  
Analyzed by: **DC** Date: **26-Apr-96**  
Type of Sample: **Soil**

**Aromatic Volatile Organics**

<b>Component</b>	<b>Result</b>	<b>Units of Measure</b>	<b>Detection Limit</b>	<b>Units of Measure</b>
<b>Benzene</b>	<b>15747.5</b>	<b>ug/kg</b>	<b>0.2</b>	<b>ug/kg</b>
<b>Toluene</b>	<b>210857.3</b>	<b>ug/kg</b>	<b>0.2</b>	<b>ug/kg</b>
<b>Ethylbenzene</b>	<b>27687.7</b>	<b>ug/kg</b>	<b>0.2</b>	<b>ug/kg</b>
<b>m,p-Xylene</b>	<b>310237.6</b>	<b>ug/kg</b>	<b>0.2</b>	<b>ug/kg</b>
<b>o-Xylene</b>	<b>57339.3</b>	<b>ug/kg</b>	<b>0.2</b>	<b>ug/kg</b>
<b>TOTAL</b>	<b>621869.4</b>	<b>ug/kg</b>		

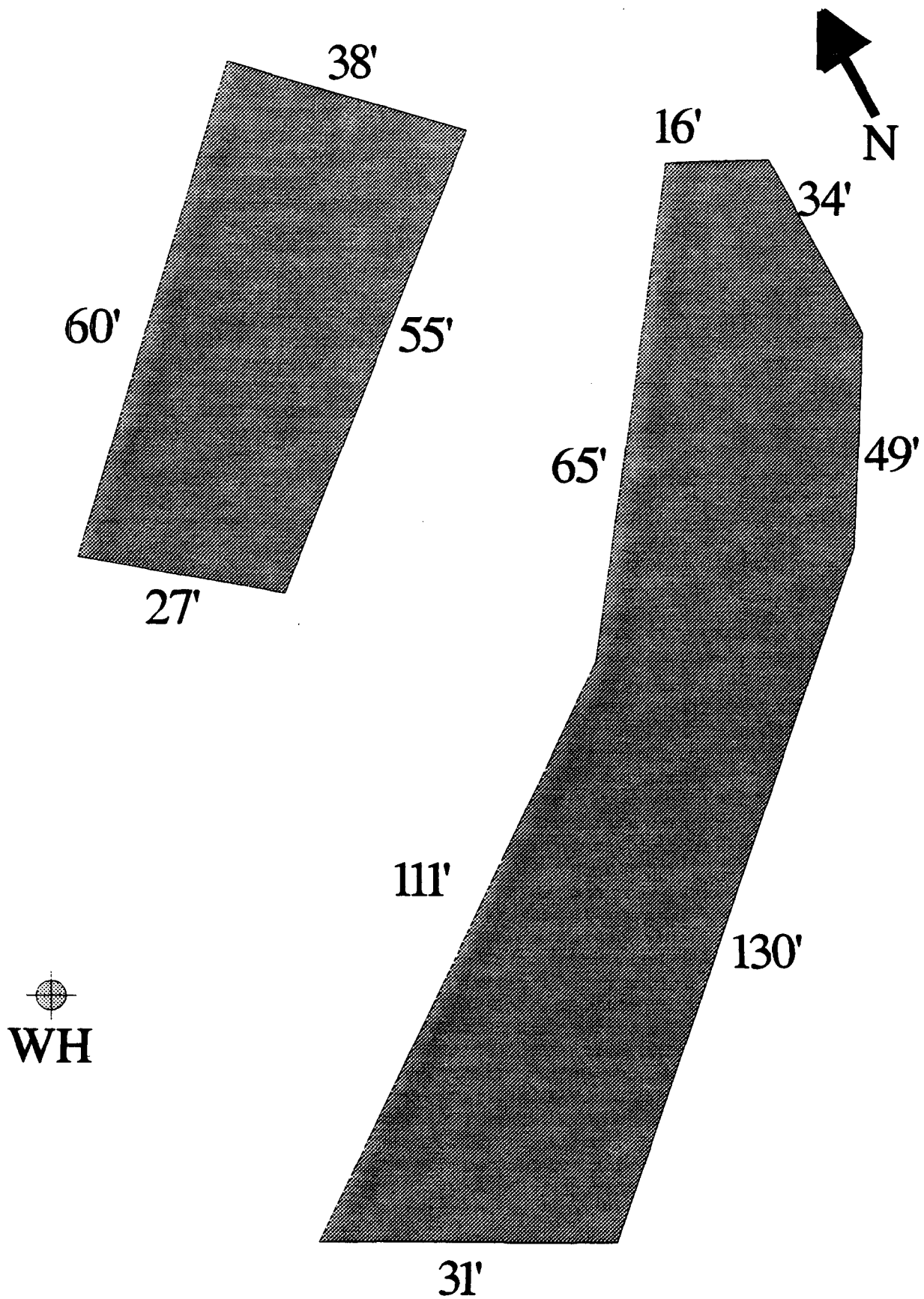
**Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography**

Approved by: *JaK*  
Date: **4/26/96**

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

000100



HAMPTON #2 N/W-S/W-13-30N-11W  
(HAMPTON #4M LANDFARM)

000703

OFF: (505) 325-5667



LAB: (505) 325-1556

**Diesel Range Organics**

Attn: **Maureen Gannon**  
Company: **PNM Gas Services**  
Address: **Alevarado Square, Mail Stop 0408**  
City, State: **Albuquerque, NM 87158**

Date: **24-Jul-96**  
COC No.: **4910**  
Sample No. **11574**  
Job No. **2-1000**

Project Name: **PNM Gas Services - Hampton #4M Landfarm Hampton #2**  
Project Location: **9607231045; 8pt. Composite, 2" - 12" depth**  
Sampled by: **GC** Date: **23-Jul-96** Time: **10:45**  
Analyzed by: **HR** Date: **24-Jul-96**  
Sample Matrix: **Soil**

**Laboratory Analysis**

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	12.3	mg/kg	5.0	mg/kg

**Quality Assurance Report**

DRO QC No.: **0479-QC**

**Calibration Check**

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,798	10.1	15%

**Matrix Spike**

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	98	100	(70-130)	2	20%

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

Approved by: *JaG*  
Date: **7/24/96**