

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

District III
1000 Rio Brazos Rd, Aztec, NM 87410

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>PNM Gas Services (Burlington)</u>		Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>			
Facility or Well Name: <u>Hampton #4M</u>			
Location:	Unit <u>N</u>	Sec <u>13</u>	T <u>30N</u> R <u>11W</u> County <u>San Juan</u>
Pit Type:	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other _____
Land Type:	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other _____
Pit Location:	Pit dimensions: length <u>20</u> width <u>20</u> depth <u>3</u>		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other _____		
	Footage from reference: <u>121'</u>		
	Direction from reference: <u>10</u> Degrees <input checked="" type="checkbox"/> East <input checked="" type="checkbox"/> North <input type="checkbox"/> West <input type="checkbox"/> South _____ of _____		
Depth to Ground Water:	Less than 50 feet		(20 points)
	50 feet to 99 feet		(10 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water)	Greater than 100 feet		(0 points) <u>20</u>
Wellhead Protection Area:	Yes		(20 points)
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	No		(0 points) <u>0</u>
Distance to Surface Water:	Less than 200 feet		(20 points)
	200 feet to 1,000 feet		(10 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Greater than 1,000 feet		(0 points) <u>20</u>
RANKING SCORE (TOTAL POINTS) :			<u>40</u>

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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

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PNMGS Well Site: **Hampton 4M**

Groundwater Site Summary Report

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

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

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

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

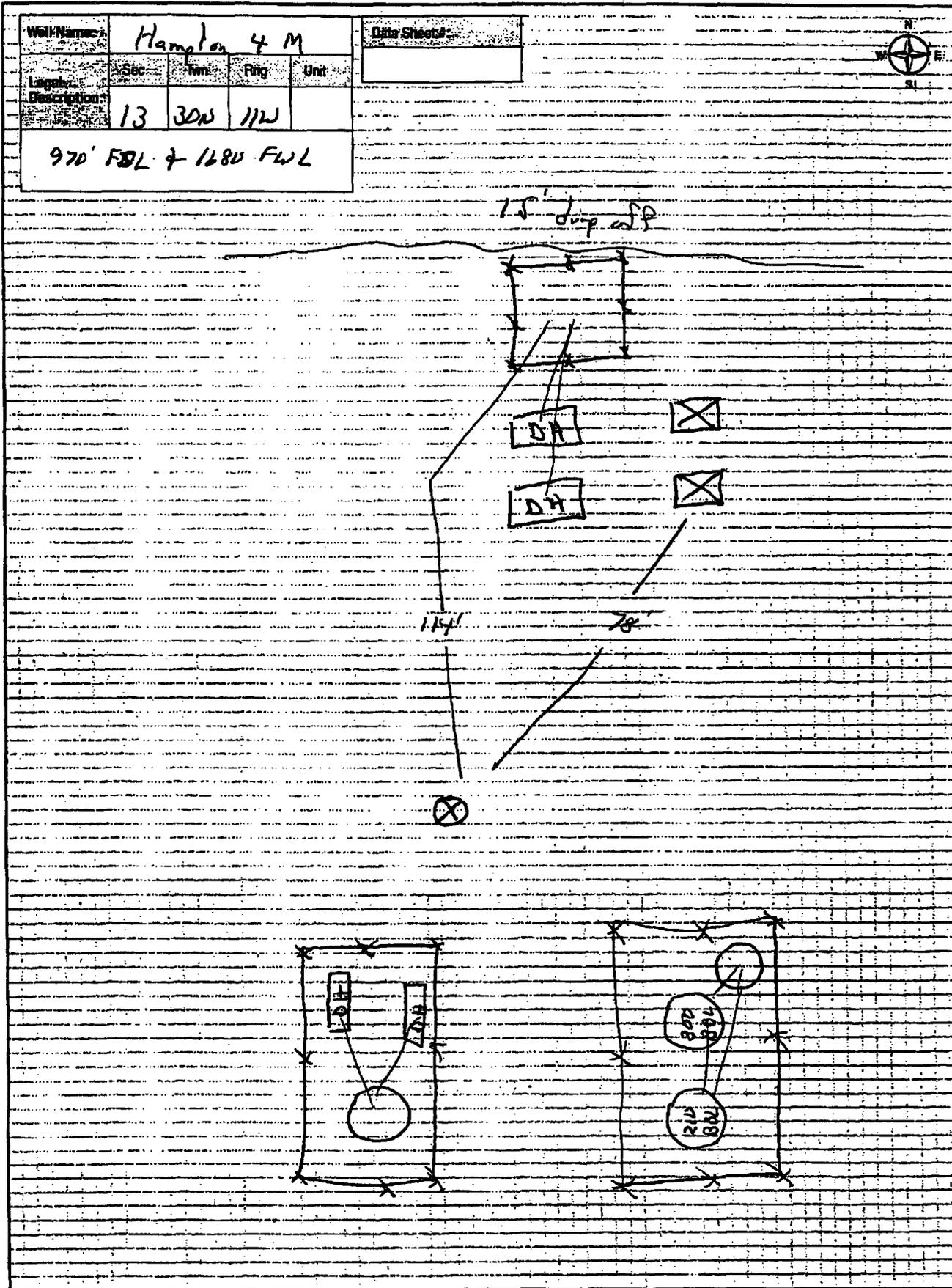
Activities to Date:

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.

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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
Diesel Range Organics (C10 - C28)	1300.9	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.: 0446-STD

Calibration Check

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

Matrix Spike

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

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

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

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: **Maureen Gannon**
 Company: **PNM Gas Services**
 Address: **Alevarado 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

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

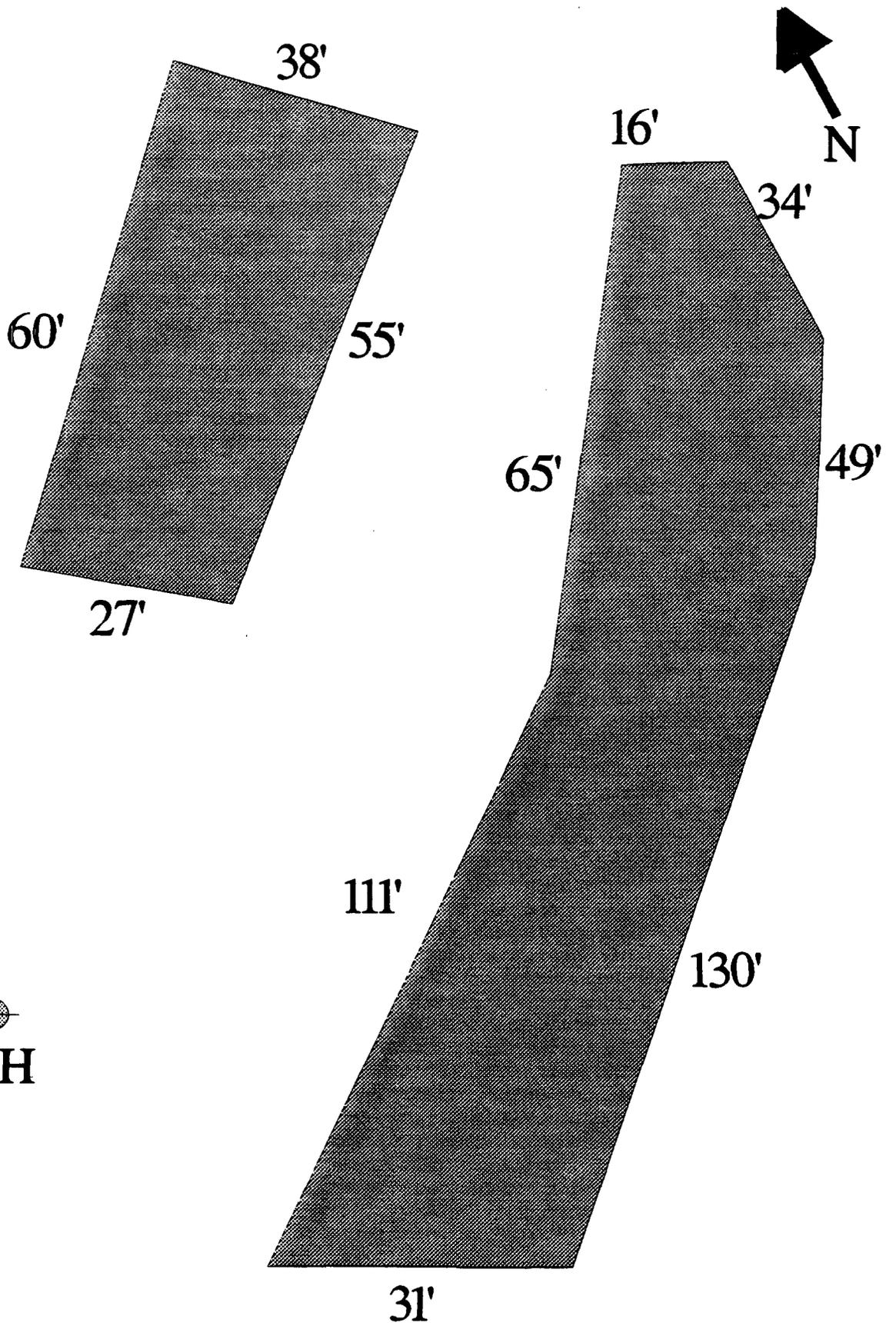
Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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

000708

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*

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